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ABSTRACT

The Environmental Protection Agency's (EPA) inhouse library systems fall into two principle categories: basic library inventory systems and literature retrieval systems. Currently, the library network supports three inventory systems: the journal system; the hard bound book system; and the circulation system. At the same time, five efforts are under way in the area of literature retrieval: (1) a system involving bibliographic information concerned with the health aspects of pesticides; (2) a similar application in the area of air pollutants and their effects on vegetation and animals; (3) a system covering a collection of international environmental reports pertaining to national environmental policies and laws; (4) an EPA reports system using master files provided by the National Information Service (Department of Commerce); and (5) an EPA document control system which monitors documents not covered by other library applications. Each of these systems generates comprehensive computer outputs meeting the total needs of the data managers as well as the daily user. (WCM)

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A DESCRIPTION OF THE ENVIRONMENTAL PROTECTION AGENCY'S IN-HOUSE LIBRARY SYSTEMS

February 1974

LIBRARY SYSTEMS BRANCH
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MANAGEMENT INFORMATION AND
DATA SYSTEMS DIVISION
OFFICE OF PLANNING AND MANAGEMENT

U. S. ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C., 20460

ED 093368

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Library Systems Branch
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U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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A Description of the Environmental Protection Agency's Inhouse Library Systems

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Purpose and Scope

EPA's inhouse library systems fall into two principle catagories: basic library inventory systems and literature retrieval systems.

The Inventory Applications

Currently, the library network supports three inventory systems: the journal system; the hard bound book system; and the circulation system. The journal and book systems are national in scope and serve the agency in the following ways:

1. The systems facilitate intelligent and efficient ordering. With the knowledge of the total inventory, the librarian can determine what additional journals and books should be ordered to stock the library properly in each of the environmental subject areas. Also, by reviewing the inventories of nearby EPA libraries, the librarian can determine if the journal or book should be ordered or borrowed from another EPA library.
2. These inventory applications provide for better utilization of library space. Libraries in a given region can coordinate inventories so that unnecessary duplication of holdings does not occur.
3. The systems assist the users of the library. By presenting complete and concise inventory documents, the users are able to obtain a better understanding of the vast information available in the total library network.

The third inhouse inventory application is the circulation system. This system is local in nature in that it services individual EPA libraries. Currently, this application is being used in various EPA libraries including the Washington D.C. library, the National Environmental Research Center libraries in Cincinnati, Ohio, and Research Triangle Park, North Carolina, and regional libraries in Seattle and Chicago. This system will be extended for use to any library requesting it. It provides the librarian with the ability to monitor all aspects of library material on loan.

Literature Retrieval Systems

At this time, five efforts are under way in the area of literature retrieval:

1. A system involving bibliographic information concerned with the health aspects of pesticides,
2. A similar application in the area of air pollutants and their effects on vegetation and animals,

3. A system covering a collection of international environmental reports pertaining to national environmental policies and laws,

4. An EPA reports system using master files provided by the National Technical Information Service (Department of Commerce), and

5. An EPA document control system which monitors documents not covered by other library applications. A major component of this collection is the vast environmental state and local report collection held by the EPA library system.

Each of these systems generates comprehensive computer outputs meeting the total needs of the data managers as well as the daily user.

Following is a summary description of the computer hardware and computer software used in the development and maintenance of each of the systems:

The Computer Hardware

All of the inhouse library systems utilize the National Institutes of Health's computer facility located in Bethesda, Maryland. This facility is one of the world's largest biomedical research computer centers.

The library systems have been developed and maintained on NIH's two IBM 370/165's. In addition to providing an extensive on-site computing facility to the many users, this center supports a comprehensive remote job entry and telecommunication capability. Through this capability, users in all parts of the country can communicate with the central computer center and perform all operations as if they were on-site. A large number of EPA's regional offices and National Environmental Research Centers are linked to NIH. To give the reader an idea of the capacity of this center, in April 1972 the center handled more than 125,000 jobs including 30,000 low speed communicating terminal sessions. In June, 1972, the second IBM 370/165 was installed. This computer has three million bytes of storage and the ability to perform over twelve and a half million computations per second.(1) The facility can support over two hundred low speed communicating terminal users simultaneously.

The Computer Software

Wylbur--This is a computer program which serves as a text editor and remote job entry facility. Developed by the Stanford University Computation Center, Wylbur has been adapted for use at the NIH computer facility. This program allows a user to communicate on-line (via a low speed communicating terminal) with the central computer and to perform a comprehensive text editing function without interfering with other jobs being processed by the computer. Using Wylbur, one can create, modify, store and retrieve text. This text can take the form of a computer program, a data master file, or even a business letter.(2) All of the computer programs, system documentation, and many of the library systems' master files are built and maintained through Wylbur. This documentation package was fully developed and edited using Wylbur. As comprehensive as this text editor is, it has been easily learned and extensively used by people with no data processing experience.

The Inquiry And Reporting System (IRS)--This is a commercially available data retrieval and report generation software package. It provides

(1) INTERFACE, (No. 34; Bethesda, Maryland: The Computer Center, Division of Computer Research Technology, National Institutes of Health, June 5, 1972), pp.

(2) WYLBUR REFERENCE MANUAL, (Bethesda, Maryland: The Computer Center, Division of Computer Research Technology, National Institutes of Health, December, 1970), p.3.

a fast, efficient, and simple technique for extracting information from computer files, performing basic data processing functions, and producing the desired form of output.(3) All of the computer programs in each of the library systems has been written in this computer language.

(3) INQUIRY AND REPORTING SYSTEM USER'S GUIDE, (Bethesda, Maryland: Sigma Data Computing Corporation, 1968), p.1.

The System Design Philosophy

The library application's initial development began nearly thirty months ago. Over time a basic system design approach has developed and some of the major aspects and considerations of the approach are presented at this juncture.

As described, the inhouse library systems involve two broad areas: library inventory systems and literature retrieval systems. In developing systems in these areas, standards of development have been established. This includes master file organization, basic computer programming techniques, alternative methods of input development and control, primary computer outputs, and so forth. The basic premise is to apply standards that have been used successfully in one area to other similar areas. An example of this approach is the agency's pesticides and air pollution systems. The pesticides system was developed first. The same primary standards were applied to the air pollution system. One of the favorable results was that the development time and costs of the air pollution system were 25% less than those of the comparable pesticides system. Another important result of using similar approaches is the reduction of training costs associated with understanding any phase of the two systems. A data preparation clerk for one system can easily learn the procedures for the other. A researcher who understands the outputs of one can quickly learn how to use the outputs of the other. In every way, learning about one of the systems helps lay the foundation for learning about the other.

A second consideration is to make available to other libraries systems that have worked for an individual library. The circulation system is an example of this approach. This system was developed for the Headquarter's library. Recently, it has been implemented in five other EPA libraries that can justify its need.

A third consideration of the system's approach is that in the development of each system the first technical procedure (following a thorough discussion of the application by the technical and functional parties) is that of establishing a working system based on a small test data base. As this test system develops the technical and functional parties work closely together insuring that the final result meets the total need. When the small test system is completed all concerned can be reasonably certain that the system will function as intended. The critical consideration is that a small test system is developed, analyzed, modified, and completed prior to the commitment of any large resource to the effort. As a result of this procedure, none of the established systems have undergone major modifications beyond the test phase.

Another important aspect of this system's approach involves the planned, effective utilization of the powerful hardware/software environment employed by these systems. The use of the on-line capabilities in each application is well planned. While small scale on-line monthly updating is used extensively, the larger initial data bases have been provided in machine readable form by contractors using conventional off-line data preparation methods. In all but the circulation system, the master files are maintained off-line on magnetic tape. Whenever practical, computer processing is accomplished during the lowest priority of computer job class. This can mean a savings of 25% over what higher unnecessary job priorities would cost. The proper use of the computer environment is essential if any system is to be cost effective.

As in any computer based system, an accurate and current data base is essential if a library application is to prove successful. In achieving such a data base, the proper use of input forms is crucial to the system. Generally, the greater the number of decentralized sources of input, the more rigid and defined the input forms and procedures must be. In our book system, approximately twenty-eight libraries from around the country submit input forms daily. The input form is well structured, and complete instructions to the participating libraries are provided. On the other hand, the circulation system serves an individual library. The input forms and controls are somewhat less rigid as all aspects of the system are managed by one individual in each library. Another important consideration is to design the input forms as closely as possible to the actual master file format. This will keep input costs as reasonable as possible.

Certainly one of the most important considerations in the design of any of the library applications is that the users' needs are satisfied. Each of the systems is designed to provide a complete set of documents presenting the data in the required formats. In the literature search applications, reports meeting refined search requirements can be generated. In all the systems, any report can be available within twenty-four hours of the request. The systems are designed to allow the user to be computer independent with the reports providing all of the necessary information. They are designed in this manner to allow for users without terminals to benefit from the systems. A further consideration is that all basic information is available if the computer is down. When necessary, the user is provided assistance by trained people who can efficiently access the systems. This not only insures that the user will be well served, but keeps system operation costs to a minimum.

In the initial design stage of user oriented systems, a primary step is to outline the necessary information report outputs. Once this is defined, the remaining elements of the system, such as file formats, input procedures, data element specifications are designed. An important point is to keep the input layouts and file formats as close in design to the principle output formats as possible. This will greatly reduce computer programming and system operation costs as well as enhance the ability of a user to comprehend the system.

A final consideration in our design approach is the desire to make full use of data bases that are not initiated and maintained inhouse. The EPA Reports System (reports submitted to NTIS) and the International Environmental Reports System are examples of this approach. In both cases the data bases are prepared by other organizations. The necessary software is developed inhouse that allows for the generation of the required information reports.

Each of the considerations described above has contributed significantly to the effective development of these systems. However, the crucial consideration necessary for the success of any system is functional people who truly understand their subject areas and their customers' needs. Without the active participation of such people, it is unlikely that any system will succeed.

The Application of COM (Computer Output on Microform) in the Library Systems

One of the most significant features of these systems is that most of the reports are available on COM (Computer Output on Microform). This allows for wide distribution of any output at a very small cost. The NIH Computer Center provides output on microfiche or microfilm in the form of an on-line Datagraphix 4400 Business Graphics Recorder.(4) To date, the library applications have used only the microfiche feature of this equipment. The microfiche has a reduction ratio of 42X. In real terms, one microfiche contains the equivalent of over 200 pages of hard copy constituting nearly 12,000 lines of print.

One of the principle reasons for the use of COM is in a situation where many copies of a structured computer generated information report are desired. The original COM costs little more than hard copy to generate. From the original, one can generate any number of copies for pennies. EPA's inhouse copies cost about four cents per microfiche. COM plays an important part in EPA's library systems because several of the reports are widely distributed both domestically and internationally. Without the microfiche medium, such distribution would be too costly for EPA to undertake.

In addition to being an inexpensive means for distributing information, in many instances, COM represents the most practical presentation of large amounts of data widely desired. Large reports not only are impractical to store but are impractical to use. One of the systems' subject indexes creates a report of 60,000 records equal to 4,000 pages or 240,000 lines of print. On microfiche, it was presented on twenty indexed microfiche less than one half inch thick.

In an area such as environmental information, complete data bases are desired by universities, foreign countries, corporations, and public groups. Mailing of large expensive reports is impossible. Domestically, one can mail five microfiche for the price of first class letter postage.

There are numerous on-line interactive computer efforts operating in the information area. The day when unlimited, on-line access to any data base is available is still some time away. Microfiche is not computer bound. It is not necessary to have access to a communicating terminal, a telephone, or a computer to use microfiche. All that is necessary to use microfiche is a reader costing approximately one hundred and fifty dollars, less than one month's rental on many communicating terminals.

A further consideration in the use of microfiche is the paper shortage. As the paper shortage continues, the necessity for a reasonable alternative will increase. The day may not be too far off when the seven inch computer listing is an expensive, impractical item of the past. COM represents one practical alternative.

COM is a very useful form of computer output. The EPA library systems have made extensive use of COM simply because with proper training, the ultimate users of these systems find COM an acceptable, inexpensive means of satisfying their information need.

(4) COMPUTER CENTER USER'S GUIDE, (Bethesda, Maryland: The Computer Center, Division of Computer Research Technology, National Institutes of Health), p. 251.

JOURNAL HOLDINGS INVENTORY SYSTEM

Below is a brief description of each of the inhouse library systems. Comparisons of systems' costs, development time, and so forth are presented in a table at the end of this documentation. In order to interpret properly the information in the table, a thorough understanding of the system description is necessary.

The Journal Holdings Inventory System

Purpose and Scope

This system gathers data on the journal holdings of all participating EPA libraries and generates a journal holdings document reflecting the inventory at any given time. In addition to generating a total EPA holdings report, an individual holdings report by library is produced. All libraries receive copies of the total journal holdings report as well as the report reflecting just the particular library's holdings. All other interested areas receive a copy of the total journal holdings report. An updated edition is generated once a year.

Data Elements

Journal titles are maintained on a title file which also contains the International Standard Serial Number. All holding information is maintained on a holdings file. Each record on the holdings file contains the library identification and the basic holding information--volume and year. The files are linked together by a journal identification number which appears on both files. The system is designed in this manner so that once a title is entered, only a holding entry is required to identify the same journal in a new library. Document #2 (page 11) is a sample file format.

Status

All of the computer programs are operational. The data base is complete. The system contains nearly 2500 titles and nearly 6000 holding entries. The second edition of the principle report has been printed. The cost of computer program execution of the primary journal inventory document (second edition) was under $16.00. A special computer program which generates all twenty-eight individual library holding reports was executed at an average cost of under $.60 per library. The reports were also generated on microfiche. In July, 1973, the International Standard Serial Number was added to the majority of the journal titles.

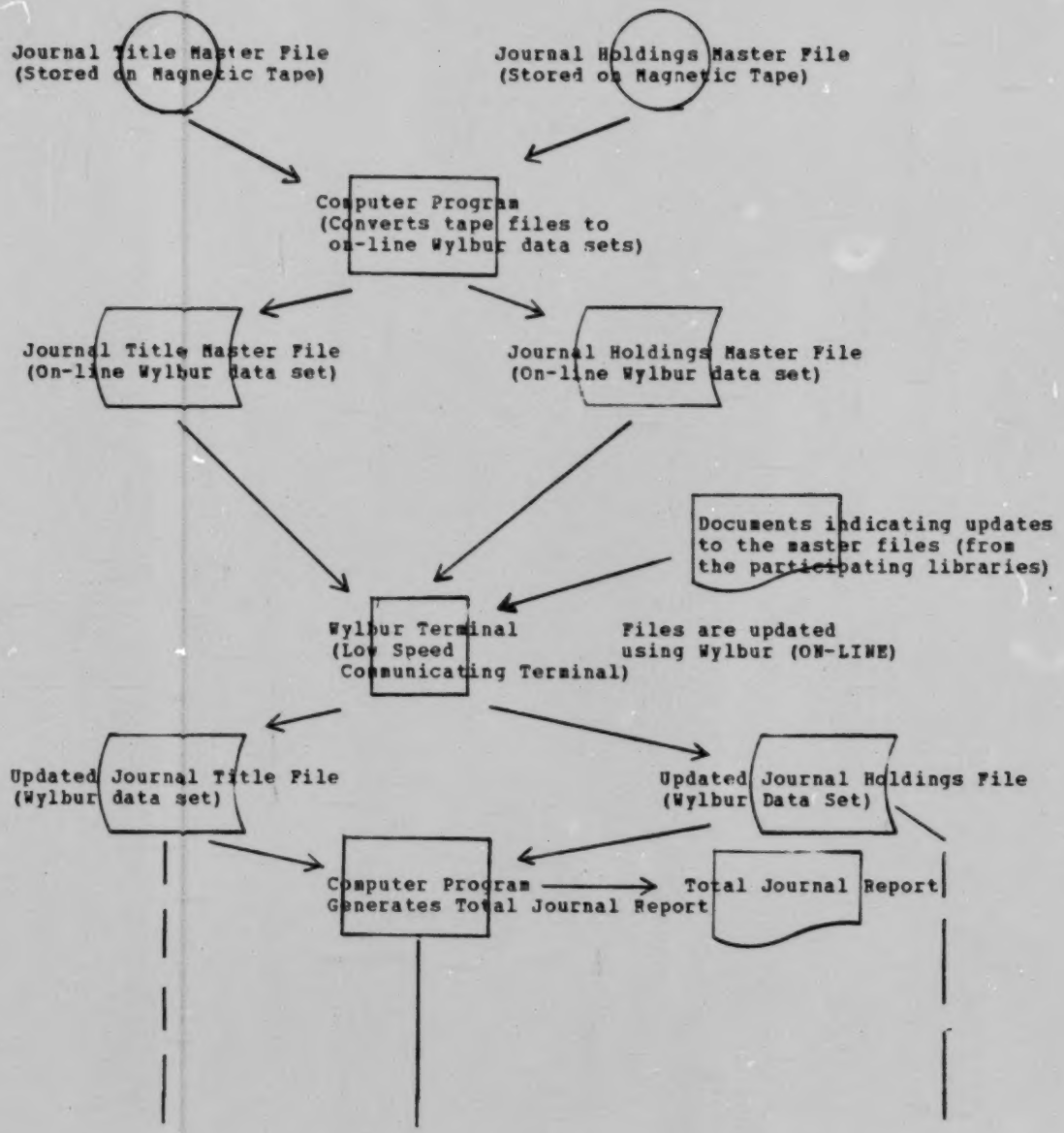
Plans

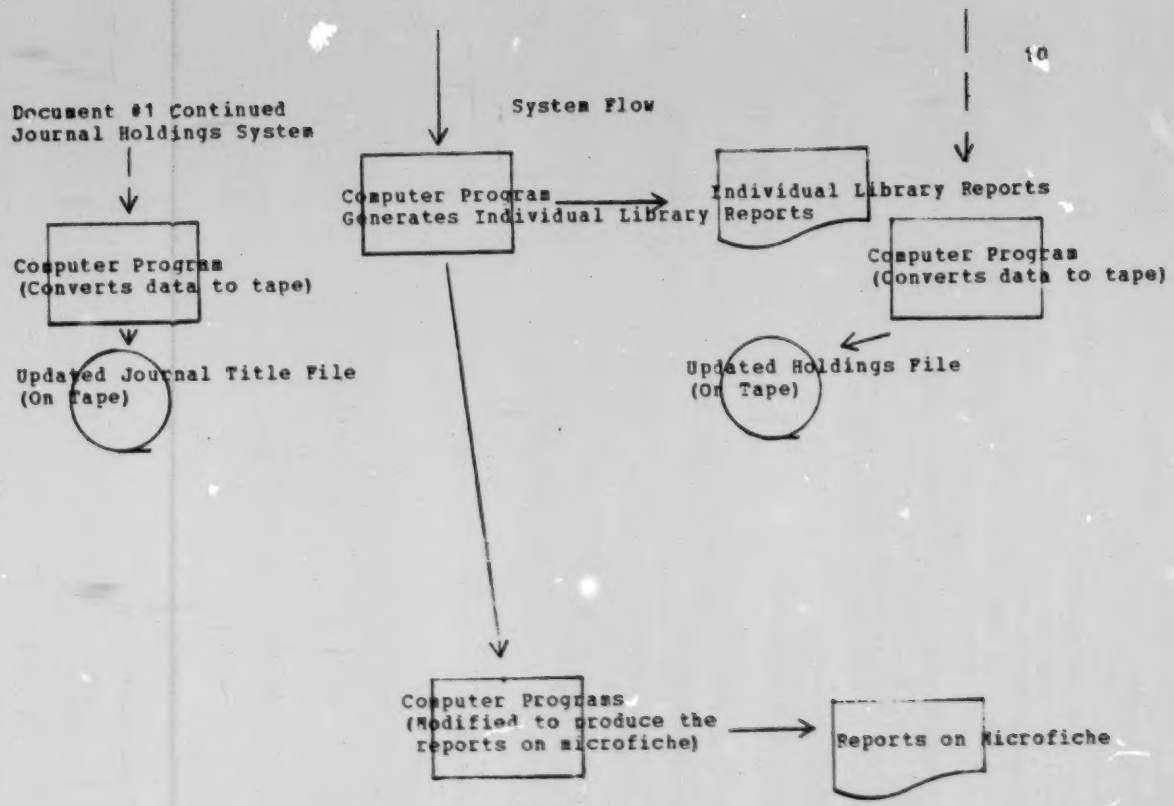
The ability to assign multiple subjects to the journal titles and generate journal title reports by subject has been accomplished in a test environment. In addition, the programming to support a journal check-in system has been completed in a test environment.

Document #1 (pages 9-10) is a brief system flow.
Document #3 (pages 12-13) is a sample of the total inventory report.
Document #4 (pages 14-15) is a sample of the individual library report.

Document #1
Journal Holdings System

System Flow




Document #1 Continued
Journal Holdings System
System Flow
Computer Program
(Converts data to tape)
Updated Journal Title File
(On Tape)
Computer Program
Generates Individual Library Reports
Individual Library Reports
Computer Program
(Converts data to tape)
Updated Holdings File
(On Tape)
Computer Programs
(Modified to produce the
reports on microfiche)
Reports on Microfiche

Document #2 Sample Master File Layouts
Journal Holdings System

Journal Title File

Journal Title	ISSN	Journal ID Number
AAPSE NEWSLETTER		000050
ABRIDGED INDEX MEDICUS	0001-3331	000100
ABST OF AIR AND WATER CONSERVATION LITERATURE		000200
ABST OF DWR PUBLICATIONS. (CALIFORNIA DEPT. OF WATER RESOURCES)		000300
ABST OF ENTOMOLOGY	0001-3579	000400
ABST OF LITERATURE ON THE BIOLOGICAL AND RELATED ASPECTS OF LEAD		000500
ABST OF MYCOLOGY		000600
ABST OF NORTH AMER GEOLOGY		000700

Journal Holdings File

Journal ID Number	Library ID	Beginning Volume and Date	Ending Volume and Date
00005005A	003	(1972) -	TO PRESENT *
00010004E	002	(1971) -	TO PRESENT
00020004B	001	(1969) -	TO PRESENT
00020004M	001	(1970) -	TO PRESENT
00030003B	001	(1967) -	002 (1968)
00040005B	002	(1971) -	TO PRESENT
00050004B	001	(1965) -	TO PRESENT
00060004J	001	(1967) -	004 (1970)
00070002B		(1966) -	(1971)
00070005B		(1966) -	TO PRESENT

AAPSE NEWSLETTER
05A 003 (1972) - TO PRESENT *

ABRIDGED INDEX MEDICUS
04E 002 (1971) - TO PRESENT 0001-3331

ABST OF AIR AND WATER CONSERVATION LITERATURE
04B 001 (1969) - TO PRESENT
04M 001 (1970) - TO PRESENT

ABST OF DWR PUBLICATIONS. (CALIFORNIA DEPT. OF WATER RESOURCES)
03B 001 (1967) - 002 (1968)

ABST OF ENTOMOLOGY
03B (1973) - TO PRESENT * 0001-3579
05B 002 (1971) - TO PRESENT

ABST OF LITERATURE ON THE BIOLOGICAL AND RELATED ASPECTS OF LEAD ....
04B 001 (1965) - TO PRESENT

ABST OF MYCOLOGY
04J 001 (1967) - 004 (1970)

ABST OF NORTH AMER GEOLOGY
02B (1966) - (1971)
05B (1966) - TO PRESENT
06B (1966) - TO PRESENT
09A (5/1969) - (1971)
10B (10/1967) - TO PRESENT

ABST OF PAPERS
03B (1964) - (1971) *

ABST OF RECENT PUBLISHED MATERIAL ON SOIL AND WATER CONSERVATION
03B (1952) - (1967) *

ABST ON HEALTH EFFECTS OF ENVIRONMENTAL POLLUTANTS
03B 002 (1973) - TO PRESENT *
04M 001 (1972) - TO PRESENT
04N 001 (1972) - TO PRESENT
09A 001 (1972) - TO PRESENT

ABST ON HYGIENE
04F 007 (1966) - TO PRESENT
05B 043 (1968) - TO PRESENT

ACCESS
03E 001 (1971)
05B (1969)

ACCESSION BUL SOLID WASTE INFO RETRIEVAL SYSTEM 0001-3866
03F 001 (1970) - TO PRESENT
05B 001 (1970) - TO PRESENT

ACCOUNTS OF CHEM RESEARCH
03B 001 (1968) - 001 (1968) *
04N 001 (1968) - TO PRESENT
05B 001 (1968) - TO PRESENT

ACCUMULATIVE VETERINARY INDEX
04C 002 (1960) - TO PRESENT

ACOUSTICAL SOCIETY OF AMER, JNL
03G 049 (1971) - TO PRESENT
10A CURRENT ONLY

ACOUSTICS ABSTRACTS
05B (1973)

ACTA BIOCHIMICA POLONICA (ENGLISH TRANSLATION, WARSAW)
04B 014 (1967) - TO PRESENT *

ACTA BIOLOGICA (F ACTA UNIVERSITIES SZEGEDIENSIS) 0001-3978
05C 020 (1969) - TO PRESENT

ACTA CHEMICA SCANDINAVICA
05B 001 (1947) - 023 (1969) *

ACTA MEDICA IUGOSLAVICA (ENGLISH TRANSLATION, BELGRADE)
04B 020 (1966) - TO PRESENT

ACTA PHARMACOLOGICS TOXICOLOGICS
10D 020 (1963) - 028 (1970)

04-13-73
03B WASHINGTON, D.C.

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

1973 JOURNAL HOLDINGS

JNL ID NO 186600 WESTERN CITY MAGAZINE 0006-4455
044 (1968) - TO PRESENT

JNL ID NO 187100 WILDLIFE MONOGRAPHS
(1969) - TO PRESENT *

JNL ID NO 187200 WILDLIFE REVIEW
103 (1961) - TO PRESENT *

JNL ID NO 187300 WILDLIFE SOCIETY NEWS
(1969)

JNL ID NO 187400 WILLING WATER
01[illegible] (1969) - TO PRESENT *

JNL ID NO 187500 WILSON LIBRARY BUL
042 (1968) - 043 (1969) *

JNL ID NO 187750 WORLD 0006-5566
(1972) - TO PRESENT

JNL ID NO 187900 WORLD ECOLOGY 2000
002 (1971) - TO PRESENT *

JNL ID NO 188000 WORLD HEALTH
(1965) - TO PRESENT *

JNL ID NO 188200 WORLD HEALTH ORGANIZATION, CHRONICLE
019 (1965) - TO PRESENT *

* INDICATES MISSING ISSUES IN THE HOLDING

04-13-73
03B WASHINGTON, D.C.

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

1973 JOURNAL HOLDINGS

JNL ID NO 188500 WORLD INDEX OF SCIENTIFIC TRANSLATIONS
002 (1968) - TO PRESENT

JNL ID NO 188600 WORLD LIST OF FUTURE INTERNATIONAL MEETINGS
(1967) - (1969)

JNL ID NO 188700 WORLD MEETINGS OUTSIDE THE U.S. AND CANADA
001 (1968) - TO PRESENT

JNL ID NO 188800 WORLD MEETINGS, U.S. AND CANADA 0006-5678
007 (1969) - TO PRESENT *

JNL ID NO 189100 WORLD REVIEW OF PEST CONTROL
004 (1965) - 008 (1969) *

JNL ID NO 189500 ZEITSCHRIFT FUR WASSERRECHT 0006-5766
007 (1968) - 009 (1970) *

JNL ID NO 189550 ZERO POPULATION GROWTH NATIONAL REPORTER
(1972) - TO PRESENT

JNL ID NO 190000 102 MONITOR (COUNCIL ON ENVIRONMENTAL QUALITY)
(1972) - TO PRESENT *

* INDICATES MISSING ISSUES IN THE HOLDING

HARD BOUND BOOK SYSTEM

The Hard Bound Book System

Purpose and Scope

This system gathers data on the total book holdings in the agency. From the resulting title and holding files a union book catalogue (by title), subject report, and author report are generated for the total holdings. A title and Library of Congress classification number report (by title and by LC Number) is also available. Reports for individual library holdings are generated. All reports are available for distribution on microfiche.

Data Elements

Book titles are maintained on a title file. This file contains a book identification number and the book title. A second file contains all other information (holdings file). This includes the book identification number (through which the files are linked); Library of Congress classification number; primary and co-authors; publisher; subjects (as many as desired); library identification; volume or edition (if applicable); and date of publication. The files are designed in this manner so that a library location entry is all that is necessary to identify the same book in a new library. The system is flexible so that additional data elements can be added. Document #7 (page 21) is a sample file format.

Status

All of the computer programs are operational. Because of the vast book inventory held by the library network, EPA will build a history book file containing all books to August, 1973. This file should be in machine readable form by the end of 1974. Currently, the partial or complete holdings of twenty libraries are in machine readable form. Inventory reports have been generated from the existing data base. A portion of this file was generated under contract. The remainder was built inhouse using Wylbur. When the files are complete, all reports will be generated and distributed. These files will be permanently held on magnetic tape. At this time the system contains nearly 10,000 unique book titles.

Beginning in August, 1973, an accession file was created. This file will contain all holdings added in fiscal year 1974. The file is built and maintained using Wylbur. Accession inventory reports are distributed on a monthly basis. From this time forward, inventories will be built on a fiscal year basis. They will be maintained on-line for one year and then transferred to magnetic tape for permanent storage. Currently, over twenty of the twenty-eight libraries are participating in the accession book system.

Plans

The book history file should be completed by the end of 1974. The accession file will be expanded to include all EPA libraries.

Document #5 (pages 18-19) is a system flow of the history file building procedure.
Document #6 (page 20) is a system flow of the current file building procedure.
Document #8 (pages 22-23) is a sample of the total book catalogue by title.
Document #9 (pages 24-25) is a sample of the total title run by the Library of Congress classification number.
Document #10 (pages 26-27) is a sample of the total title run by title (alphabetic).
Document #11 (pages 28-29) is a sample of the book catalogue meeting a specific subject(s) requirement.
Document #12 (pages 30-31) is a sample of the total subject run. The book title appears under each assigned subject.
Document #13 (pages 32-33) is a sample of the total author run. The title appears under both the primary and co-authors.

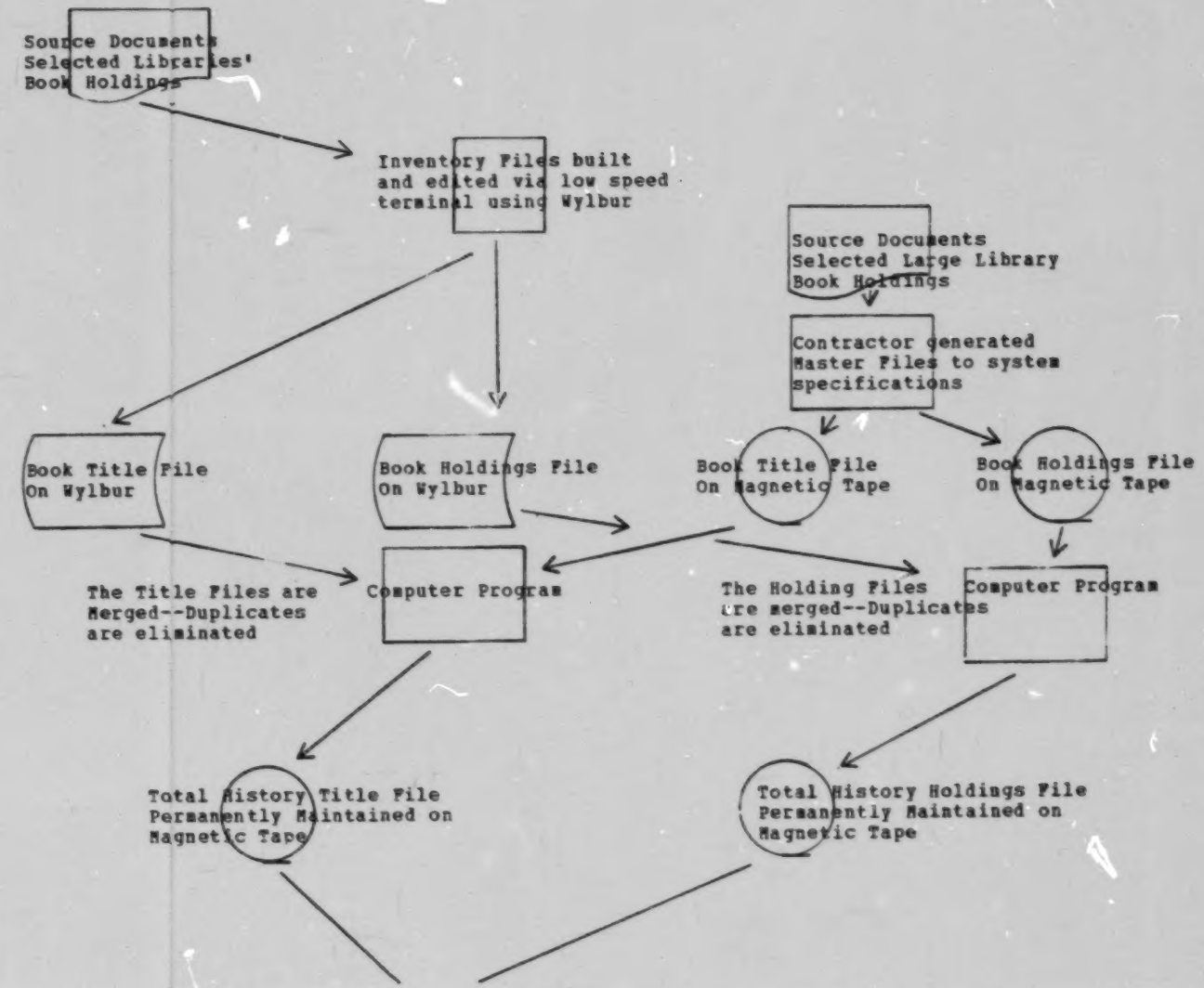
Each of the above book outputs is available for a given library in the total library network.

Document #14 (pages 34-35) is a sample of the monthly current awareness. This is generated from the accession file and is distributed by library.

In addition, monthly and cumulative quarterly listings of the accession file are generated by title, author, and subject. Samples of these outputs are not included as they are very similiar to the standard book system reports shown as samples of the history book outputs.

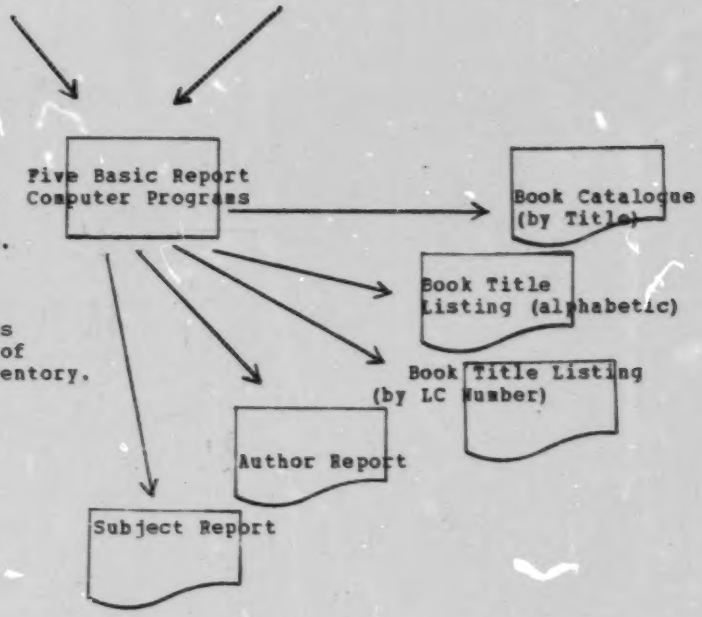
Document #5 System Flow--History File Building Procedure
Hard Bound Book System

These files will contain all book holdings held by EPA to August, 1973.



Document #5 Continued
Hard Bound Book System

System Flow--History File Building Procedure

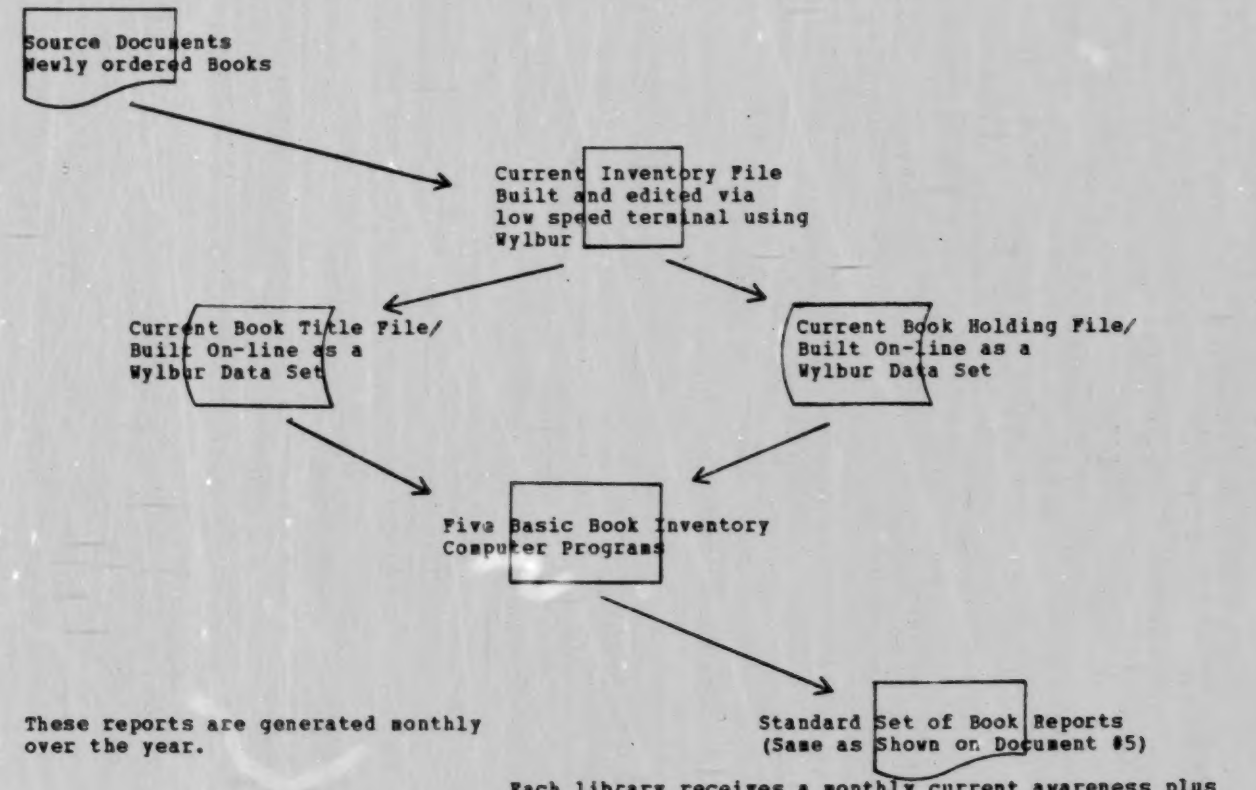


These reports will also be generated on microfiche.

All participating libraries will receive the same set of reports covering their inventory.

Document #6 System Flow--Accession File Building Procedure
Hard Bound Book System

This procedure began in August, 1973. Inventories will be maintained by fiscal year. In July, 1974, a current yearly inventory will be started again.



These reports are generated monthly over the year.

Each library receives a monthly current awareness plus a monthly catalogue and subject listing. Every quarter, a cumulative set of reports by title, author and subject are distributed.

Document #7 Sample File Layouts
Hard bound Book System

Book Title File

Book ID Number Book Title

1000001 FAMOUS FIRST FACTS
1000002 SPECIALIZED SCIENCE INFORMATION SERVICES IN THE UNITED STATES
1000004 WORLD OF LEARNING
1000005 SCIENTIFIC AND TECHNICAL SOCIETIES OF THE UNITED STATES AND CANADA

Book Holding File

Book ID Number LC Classification Number Library ID Number Publisher
Sub Record ID Number Author(S) Date of Publication
Subject(s) Volume or Edition

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1000001 00AG5 K315          KANE JOSEPH N                                WILSON
1000001 11   ENCYCLOPEDIAS + DICTIONARIES
1000001 20                  03B  ED 3          1964
1000002 00AG521 B3          BATTELLE MEMORIAL INSTITUTE                  NSF
1000002 11   INFORMATION SERVICES DIRECTORY
1000002 20                  03B                1961
1000004 00AS2 W6                                                         LONDON EUROPA
1000004 11   LEARNED INSTITUTIONS + SOCIETIES
1000004 20                  03B  ED 21         1971
1000005 00AS15 H3           NAS/NRC                                      NATL ACAD SCI
1000005 11   LEARNED INSTITUTIONS + SOC CANA US     TECHNICAL SOCIETIES
1000005 20                  03B  ED 8          1968
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03-10-73

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

BOOK CATALOGUE LISTING

This ID number does not appear on the final report.

WOODWORM PROBLEM					1001548
ENTOMOLOGY					1001548
	03B	1963			1001548
WORKING PRESS OF THE NATION					1001203
Z6951 W6	NATL RESEARCH BUREAU			NATL RES BUREAU	1001203
AMERICAN NEWSPAPERS US DIRECT		JOURNALISTS US DIRECT	RADIO DIRECTORY		1001203
	03B	1968			1001203
WORLD ALMANAC AND BOOK OF FACTS					1000013
AY67 N5W7				NY WORLD TELEGRAM	1000013
ALMANACS AMERICAN		STATISTICS YEARBOOKS			1000013
	03B	1969-72			1000013
	09A	1923			1000013
WORLD CATALOGUE OF THESES ON THE PACIFIC ISLANDS					5000275
Z4501 D52 1970B	DICKSON DIANE + DOSSOR C EDS			U OF HAWAII	5000275
HAWAII		BIBLIOGRAPHIES	PACIFIC ISLANDS		5000275
	09A	1970			5000275
WORLD CROP PROTECTION					1001603
SB601 S65	STAPLEY J H + GAYNER F C H			CHEM RUBBER CO	1001603
CROPS					1001603
	03B V 1,2	1969			1001603
WORLD DYNAMICS					1002570
HD82 F63	FORRESTER JAY W			WRIGHT ALLEN	1002570
ECONOMIC POLICY MATH MODELS		STATES AND DYNAMICS	DEMOGRAPHY MATH MODELS		1002570
	03B	1971			1002570
WORLD GUIDE TO SCIENCE INFORMATION AND DOCUMENTATION SERVICES					1002571
Q223 U45	UNESCO			UNESCO	1002571
SCIENCE INFO SERVICES DIRECT					1002571
	03B	1965			1002571
WORLD OF LEARNING					1000004
AS2 W6				LONDON EUROPA	1000004
LEARNED INSTITUTIONS + SOCIETIES					1000004
	03B ED 21	1971			1000004
WORLD OF WATER					1002069
GB661 W26 1970	WALTON WILLIAM C			TAPLINGER	1002069
WATER					1002069
	03B	1970			1002069
WORLD REGISTER OF DAMS					1000874
TC540 I453	INTERNAIONAL COM ON LARGE DAMS			INTL COM LARGE DAMS	1000874
DAMS REGISTERS					1000874
	03B V 1-4	1964			1000874

03-10-73

ENVIRONMENTAL PROTECTION AGENCY
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BOOK CATALOGUE LISTING

This ID number does not appear on the final report.

WORLD SPACE DIRECTORY				1002572
TL788 3 W65	DEAN DONALD W ED		AM AVIATION	1002572
ASTRONAUTICS DIRECT		AEROSPACE INDUSTRY DIRECT		1002572
	03B V 6,7	1967-69		1002572
WORLD WATER AND ENVIRONMENT				1000051
GB661 S197	SALE COLIN J + SALE M E		SHAKESPEARE HEAD	1000051
WATER		PHYSICAL GEOGRAPHY		1000051
	03B	1967		1000051
WORLD WEIGHTS AND MEASURES				1000436
JX1977 A2	UNITED NATIONS		UNITED NATIONS	1000436
WEIGHTS + MEASURES				1000436
	03B	1966		1000436
WORLDS WHOS WHO IN SCIENCE				1000512
Q141 W7	DEBUS ALLEN G ED		MARQUIS	1000512
SCIENTISTS BIOGRAPHIC DIRECTORY				1000512
	03B	1968		1000512
WRECK OF THE TORREY CANYON				1000038
G530 T72 G5	GILL CRISPIN + BOOKER F		TAPLINGER	1000038
TORREY CANYON SHIP				1000038
	03B	1967		1000038
WRITERS MARKET FOR CINCINNATI OHIO				1000490
PN161 W83	MATHLEU ARON M + JONES R A EDS		WRITERS DIGEST	1000490
PUBLISHERS + PUBLISHING US		AUTHORSHIP HANDBOOKS	PUBLISHERS + PUBLISHING GT BRIT	1000490
	03B	1954		1000490
WRITING FOR PROFESSIONAL AND TECHNICAL JOURNALS				1000805
T11 M56	MITCHELL J HOWARD		WILEY	1000805
TECHNICAL WRITING				1000805
	03B	1968		1000805
	05C	1968		1000805
XSUSSWASSER FLORA MITTLELEUROPAS				3248000
QK314 H8	HUSTEDT FRIEDRICH		FISHCER	3248000
				3248000
	05C V 10	1930		3248000
YEARBOOK				1000882
TD1 A28	AMER PUBLIC WORKS ASSOC		APWA	1000882
YEARBOOKS				1000882
	03B	1964/65,67/68,70		1000882
YEARBOOK OF INTERNATIONAL ORGANIZATIONS				1000435
JX1904 A42	TEW EYVIND S ED		UNION INTNL ASSOC	1000435
INTERNATIONAL AGENCIES YEARBOOKS				1000435

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

L C ORDERED LISTING OF BOOK TITLES

AE5 E363 1969
ENCYCLOPEDIA BRITANNICA

AG5 K315
FAMOUS FIRST FACTS

AG521 B3
SPECIALIZED SCIENCE INFORMATION SERVICES IN THE UNITED STATES

AS15 H3
SCIENTIFIC AND TECHNICAL SOCIETIES OF THE UNITED STATES AND CANADA

AS2 W6
WORLD OF LEARNING

AS25 D5
RESEARCH CENTERS DIRECTORY

AS6 H4
HOW TO RUN BETTER MEETINGS

AS911 A2 A67
ANNUAL REGISTER OF GRANT SUPPORT

AS911 A2F65
FOUNDATION DIRECTORY

AS911 F6 A442
FORD FOUNDATION REPORT

AY414 C2
CANADIAN ALMANAC AND DIRECTORY

AY64 I55
INFORMATION PLEASE ALMANAC ATLAS AND YEARBOOK

AY64 R4
READERS DIGEST ALMANAC

AY67 N5T55
NEW YORK TIMES ENCYCLOPEDIC ALMANAC

Document #9

01-19-72

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

L C ORDERED LISTING OF BOOK TITLES

BOOKS WITHOUT L C NO ASSIGNED

ABSORPTION SPECTROSCOPY

ACCIDENT PREVENTION MANUAL

ADVANCES IN BIOLOGICAL AND MEDICAL PHYSICS

AFRICAN AND INDO AUSTRALIAN MURIDAE EVOLUTIONARY TRENDS

AGRICULTURAL PRACTICES AND WATER QUALITY

ALDRIN DIELDRIN ENDRIN AND TELODRIN

AMERICAN MOTER CARRIER DIRECTORY FALL 1971 NATIONAL EDITION NO 56

ANIMAL COMMUNICATION TECHNIQUES OF STUDIES AND RESULTS OF SEARCH

APPLIED INORGANIC ANALYSIS

AWPA MANUAL MANUAL OF RECOMMENDED PRACTICE

AWPA STANDARDS

BASIC GAS CHROMATOGRAPHY

BATS OF AMERICA

BIOCHEMICAL CALCULATIONS

BIOCHEMICAL TOXICOLOGY OF INSECTICIDES

BIOLOGICAL ACTIONS OF DIMETHYL SULFOXIDE

BIOLOGY OF BATS

BIOLOGY OF POPULATIONS

BIRDS OF THE REPUBLIC OF PANAMA PART ONE

BRIEF GUIDE TO SOURCES OF SCIENTIFIC AND TECHNICAL INFORMATION

BUGS OR PEOPLE

CALCIUM IN REPRODUCTIVE PHYSIOLOGY

CARCINOGENESIS A BROAD CRITIQUE

CATIONIC SURFACTANTS

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

ALPHABETIC LISTING OF BOOK TITLES

AB BOOKMANS YEARBOOK
Z990 A18

ABBREVIATIONS DICTIONARY
PE1693 D4

ABSORPTION SPECTRA AND CHEMICAL BONDING IN COMPLEXES
QD 95 J6

ABSORPTION SPECTROSCOPY

ACCIDENT PREVENTION MANUAL

ACCOUNTANT AUDITOR COMPLETE STUDY GUIDE FOR SCORING HIGH
HF5661 A67

ACCOUNTING FOR NON ACCOUNTANTS
HG5635 M9893

ACHIEVE EXECUTIVE SUCCESS AVOID FAMILY FAILURE
HF5500 2 A72 A

ACRONYMS AND INITIALISMS DICTIONARY
PE1693 G3

ACTIONS OF HORMONES ON MOLECULAR PROCESSES
QP187 L535

ADMINISTRATION OF INTERSTATE COMPACTS
JK2441 L4

ADMINISTRATIVE ASSISTANT OFFICER COMPLETE STUDY GUIDE FOR SCORING HIGH
JK716 T76

ADMINISTRATORS JOB ISSUES AND DILEMMAS
HD31 R43

ADSORPTION FROM AQUEOUS SOLUTION
QD 1 A355 NO 79

ADVANCED ANALYTICAL CHEMISTRY
QD 75 M4

ADVANCED ORGANIC CHEMISTRY
QD 251 F44

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

ALPHABETIC LISTING OF BOOK TITLES

ADVANCED WASTEWATER TREATMENT
TD745 C8

ADVANCES IN APPLIED MICROBIOLOGY
QR1 A38

ADVANCES IN BIOLOGICAL AND MEDICAL PHYSICS

ADVANCES IN BIOLOGICAL WASTE TREATMENT
TD755 C66

ADVANCES IN CHROMATOGRAPHY
QD271 A23

ADVANCES IN COMPARATIVE PHYSIOLOGY AND BIOCHEMISTRY
QP31 A28

ADVANCES IN ENVIRONMENTAL SCIENCES
TD180 A38

ADVANCES IN FLUORINE CHEMISTRY
QD181 F1 A33

ADVANCES IN GEOPHYSICS
QC801 A283

ADVANCES IN MARINE BIOLOGY
QH91 A1 A22

ADVANCES IN MICROBIOLOGY OF THE SEA
QR106 D75

ADVANCES IN PEST CONTROL RESEARCH
SB601 A54

ADVANCES IN TRACER METHODOLOGY
TK9400 A3

ADVANCES IN WATER POLLUTION RESEARCH
TD420 A27

ADVANCES IN WATER POLLUTION RESEARCH

ADVANCES IN WATER QUALITY IMPROVEMENT
TD745 G58

BOOK CATALOGUE LISTING

FISCHER TROPSCH AND RELATED SYNTHESES
CHEMISTRY ORGANIC SYNTHESES — SYNTHINE PROCESS — CATALYSIS
038 — 1951

FLUORESCENCE AND PHOSPHORESCENCE ANALYSIS
QD 271 H46 — HERCULES DAVID M ED — INTERSCIENCE
FLUORIMETRY — CHEMISTRY ORGANIC
05C 2 V — 1962-66

HORMONES AND BEHAVIOR
QP 356 B35 — BEACH FRANK A — COOPER SQUARE
HORMONES — PSYCHOLOGY PHYSIOLOGICAL
05C ED 2 — 1961

INFRARED ABSORPTION SPECTROSCOPY PRACTICAL
QD 95 N383 — NAKANISHI KOJI — HOLDEN-DAY
SPECTROCHEMISTRY — SPECTRUM INFRA RED — CHEMISTRY ORGANIC
ABSORPTION SPECTRA
05C — 1962

INTEGRATING THE INDIVIDUAL AND THE ORGANIZATION
HF5549 A8968 — ARGYRIS CHRIS — WILEY
PERSONNEL MANAGEMENT — PSYCHOLOGY INDUSTRIAL
09A — 1964

INTERPRETATION OF MASS SPECTRA OF ORGANIC COMPOUNDS
QD 95 B8 — BUDZIKIEWICZ HERBERT + DJERASSI C — HOLDEN-DAY
MASS SPECTROMETRY — CHEMISTRY ORGANIC
05C — 1964

ION MOLECULE REACTIONS IN THE GAS PHASE A SYMPOSIUM
QD 1 A355 NO 58 — DIV PHYSICAL CHEMISTRY — AMER CHEM SOC
MASS SPECTROMETRY — IONS — MOLECULES
GASES
05C — 1966

MASS SPECTRA OF ORGANIC MOLECULES
QD 271 B49 — BEYNON JOHN + SAUNDERS R A — ELSEVIER
MASS SPECTROMETRY — CHEMISTRY ORGANIC
05C — 1968

MASS SPECTROMETRY ORGANIC CHEMICAL APPLICATIONS
QD 95 B48 — BIEMANN KLAUS — MCGRAW
MASS SPECTROMETRY — CHEMISTRY ORGANIC
05C — 1962

MEN MANAGEMENT AND MORALITY
HF5548 8 G65 G — GOLEMBIEWSKI ROBERT T — MCGRAW HILL
PSYCHOLOGY INDUSTRIAL — PERSONNEL MANAGEMENT — INDUSTRIAL SOCIOLOGY

01-19-73
SEARCH PARAMETERS: ABSORPTION, MOLECULES
CHEMISTRY ORGANIC, PSYCHOLOGY

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

BOOK CATALOGUE LISTING

ABSORPTION SPECTRA AND CHEMICAL BONDING IN COMPLEXES
QD 95 J6 JORGENSEN CHRISTIAN K PERGAMON
ABSORPTION SPECTRA COMPLEX IONS MOLECULES
05C 1962

ABSORPTION SPECTROSCOPY
BAUMAN ROBERT P WILEY
ABSORPTION SPECTROSCOPY
02C 1962

ADVANCED ORGANIC CHEMISTRY
QD 251 F44 FIESER LOUIS F + FIESER M REINHOLD
CHEMISTRY ORGANIC
05C 1961

APPLICATIONS OF MASS SPECTROMETRY TO ORGANIC CHEMISTRY
QD476 R43 REED ROWLAND I ACAD PR
MASS SPECTROMETRY CHEMISTRY ORGANIC
05C 1966

APPLICATIONS OF NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY IN ORGANIC CHEMISTRY
QD 476 J3 JACKMAN LLOYD M PERGAMON
CHEMISTRY ORGANIC NUCLEAR MAGNETIC RESONANCE SPECTRUM ANALYSIS
05C 1959

ATOMIC ABSORPTION SPECTROPHOTOMETRY
QD117 P5 ELWELL WILLIAM T + GIDLEY J A F PERGAMON
SPECTROCHEMISTRY ABSORPTION SPECTRA SPECTROPHOTOMETRY
05C ED 2 REV 1966
09A 1961

BIOCHEMICAL APPLICATIONS OF GAS CHROMATOGRAPHY
QD271 B85 BURCHFIELD HARRY P + STORRS E E ACAD PR
GAS CHROMATOGRAPHY CHEMISTRY ORGANIC
05C 1962
09A 1962

CHEMISTRY OF ORGANIC COMPOUNDS
QD 253 N65 NOLLER CARL R SAUNDERS
CHEMISTRY ORGANIC
05C 1965

ELECTRONIC INTERPRETATIONS OF ORGANIC CHEMISTRY
QD461 R43 REMICK ARTHUR E WILEY
CHEMISTRY ORGANIC CHEMISTRY PHYSICAL + THEORETICAL ELECTRONS
038 ED 2 1949

FISCHER TROPSCH AND RELATED SYNTHESES
QD262 S84 STORCH HENRY H + GOLUMBIC N WILEY

Document #12

03-28-73

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

SUBJECT LISTING

US DESCR + TRAV FACE OF NORTH AMERICA	QH104 F3
US EXECU DEPTS DIRECT BIBL DIRECTORIES OF GOVERNMENT AGENCIES	Z7165 U5W9
US FED TRADE COMM NADER REPORT ON THE FEDERAL TRADE COMMISSION	HD2795 C8
US FOOD AND DRUG ADMINISTRATION CHEMICAL FEAST	HD9000 9 U5T83
US GOVT PUBL BIBLIO GOVERNMENT REFERENCE BOOKS	Z1223 Z7G68
US GOVT PUBLI BIBL SUBJECT GUIDE TO MAJOR U S GOVERNMENT PUBLICATIONS	Z1223 Z7J32
US GOVT PUBLI BIBLIOGRAPHY ANNOTATED BIBLIOGRAPHY OF BIBLIOGRAPHIES ON SELECTED GOVERNMENT PUBLICATIONS	Z1223 Z7B65
US PUBLIC LANDS HISTORY HISTORY OF PUBLIC LAND LAW DEVELOPMENT	KF5605 G3
US SOIL CONSERVATION SERVICE SOIL CONSERVATION SERVICE	S622 S44
US STATISTICS COUNTY AND CITY DATA BOOK	HA202 A36
VALENCE THEORETICAL CHEMISTRY THEORY OF TRANSITION METAL IONS UNFAMILIAR OXIDATION STATES AND THEIR STABILIZATION	QC176 G7 QD469 K55
VERS US DOCUMENTS ON THE USE AND CONTROL OF WATERS OF INTERSTATE AND INTERNATIONAL STREAMS	KF5569 A45
VERTEBRATES ANATOMY MORPHOGENESIS OF THE VERTEBRATES	QL955 T6
VETERINARY PATHOLOGY VETERINARY PATHOLOGY	SF769 S54
VIBRATION NOISE AND VIBRATION CONTROL	TD892 N65
VIBRATIONS VIBRATION AND IMPACT	TA355 B8

03-28-73

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SUBJECT LISTING

VIROLOGY TECHNIQUE	
ELECTRON MICROSCOPE IN BIOLOGY	QH212 E4 G7
VOLUMETRIC ANALYSIS	
EDTA TITRATIONS	QD111 F47
MICRODIFFUSION ANALYSIS AND VOLUMETRIC ERROR	QD98 C5
VOLUMETRIC ANALYSIS	QD111 K642
WASTE DISPOSAL	
DISPOSAL OF RADIOACTIVE WASTES INTO SEAS OCEANS AND SURFACE WATERS	TD898 S898 1966
WASTE DISPOSAL IN THE MARINE ENVIRONMENT	TD511 I6
WASTE ECONOMICS	
WASTE MAKERS	HC110 W3P3
WASTE PRODUCTS CONGRESSES	
INDUSTRIAL WASTE CONFERENCE	TP995 A1I5
WASTE WATER TREATMENT	
QUALITY AND POLLUTION RESEARCH 1969	TD370 J47 1969
WATER	
ANNUAL BOOK OF AMERICAN SOCIETY FOR TESTING AND MATERIALS ASTM STANDARDS	TA401 A653
LIVING WATER	PH46 B7
STREAMS LAKES PONDS	QH96 C6
WATER	GB671 L4
WATER U S DEPARTMENT OF AGRICULTURE YEARBOOK	S21 A35 1955
WATER ADDR ESS LEC	
WATER FOR PEACE	HD1691 I5
WATER ANALYSIS	
MICROSCOPY OF DRINKING WATER	TD384 W58 1927
PRACTICAL HANDBOOK OF SEAWATER ANALYSIS	SH223 A344 NO 167
RECOMMENDED PROCEDURES FOR THE EXAMINATION OF SEA WATER AND SHELLFISH	QR65 A52
WATER ANALYSIS ADDRESSES	
TRACE INORGANICS IN WATER A SYMPOSIUM	QD1 A355 NO 73
WATER ANALYSIS BIBL	
BIBLIOGRAPHY ON WATER AND SEWAGE ANALYSIS	TA7 G4
WATER BIRDS	
WATERFOWL TOMORROW	QL696 A5U5 U
WATER CHEMISTRY CONGR	
NONEQUILIBRIUM SYSTEMS IN NATURAL WATER CHEMISTRY	QD1 A355 NO 106

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

AUTHOR LISTING

WARD RITCHIE R PRACTICAL TECHNICAL WRITING	TII W35
WARKANY JOSEF ED TERATOLOGY PRINCIPLES AND TECHNIQUES	QL991 W65
WARSHOFSKY FRED POISONS IN THE AIR	TD883 2 E3
WASHTELL C C H NUCLEONIC INSTRUMENTATION	TK7870 W32
WASSERMAN R H ED TRANSFER OF CALCIUM AND STRONTIUM ACROSS BIOLOGICAL MEMBRANES	QP535 S8 C6
WASTLER T A SPECTRAL ANALYSIS	TD420 W33
WATERMAN TALBOT H ED PHYSIOLOGY OF CRUSTACEA	QL445 W3
WATT JOHN H ED AMERICAN ELECTRICIANS HANDBOOKS	TK151 A47
WATT KENNETH E F ED SYSTEMS ANALYSIS IN ECOLOGY	QH541 W3
WEADOCK VIRGINIA A CHALLENGE FOR SURVIVAL	HM206 C4
WEBB EDWIN C ENZYMES	QP601 D48
WEBB JOHN L ENZYME AND METABOLIC INHIBITORS	QP601 W38
WEBB WALTER F UNITED STATES MOLLUSCA	QL414 W42
WEBER RUDOLF ED BIOCHEMISTRY OF ANIMAL DEVELOPMENT	QL963 W4
WEBER WALTER J JR PHYSICOCHEMICAL PROCESSES FOR WATER QUALITY CONTROL	TD430 W42
WEIL B H BIBLIOGRAPHY ON WATER AND SEWAGE ANALYSIS	TA7 G4

ENVIRONMENTAL PROTECTION AGENCY
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AUTHOR LISTING

WEISSBERGER ARNOLD ED TECHNIQUE OF INORGANIC CHEMISTRY	QD151 J76
WELLFORD HARRISON SOWING THE WIND PESTICIDES MEAT AND THE PUBLIC INTEREST	TX533 W45
WESSELLS NORMAN K ED METHODS IN DEVELOPMENTAL BIOLOGY	QL961 W54
WEST EDWARD S + OTHERS TEXTBOOK OF BIOCHEMISTRY	QP514 W38
WESTFALL MINTER J JR MANUAL OF THE DRAGONFLIES OF NORTH AMERICA	QL513 02 N46
WHEELER E L SCIENTIFIC GLASSBLOWING	TP859 W48
WHEELIS ALLEN QUEST FOR IDENTITY	BF173 W43
WHIPPLE GEORGE C + FAIR G M MICROSCOPY OF DRINKING WATER	TD384 W58 1927
WHITE CHARLES E FLUORESCENCE ANALYSIS	QD117 F5W45
WHITE-STEVENS ROBERT ED PESTICIDES IN THE ENVIRONMENT	SB951 W52
WHITTINGTON LLOYD R WHITTINGTONS DICTIONARY OF PLASTICS	TP1110 W46
WIBERG KENNETH B COMPUTER PROGRAMMING FOR CHEMISTS	QD251 W5213
WIDENER DON + LANDAU E R TIMETABLE FOR DISASTER	TD180 W53
WILBUR KARL M + YONGE C M EDS PHYSIOLOGY OF MOLLUSCA	QL431 W58
WILDAVSKY AARON B POLITICS OF THE BUDGETARY PROCESS	HJ2051 W 485 W
WILLARD HOBART H + MERRITT L L JR INSTRUMENTAL METHODS OF ANALYSIS	QD61 W67

1973 BOOK HOLDINGS
FOR LIBRARY:
018 WEST KINGSTON, RHODE ISLAND

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

NOVEMBER CURRENT AWARENESS

ABYSSAL ENVIRONMENT AND ECOLOGY OF THE WORLD OCEANS	QH541.5.S3M4
ALGAE ABSTRACTS A GUIDE TO THE LITERATURE	QK564.5.A38
ANALYSIS OF ORGANIC POLLUTANTS IN WATER AND WASTE WATER	TD427.07L4513
BIOLOGICAL MINERALIZATION	QP531.Z55
CBE STYLE MANUAL	Z250.6.B5C6
COASTAL AQUACULTURE IN THE INDO PACIFIC REGION	SH1.I5144
CULTURE AND DISEASES OF GAME FISHES	SH151.D28
EARTH BENEATH THE SEA	QE33.S47
ECOLOGY OF SALT MARSHES AND SAND DUNES	QH541.5.S24R36
ENVIRONMENTAL CONTROL OF CELL SYNTHESIS AND FUNCTION	QR66.I62
ENVIRONMENTAL LAW	KF3775.R42
ESTUARIES A PHYSICAL INTRODUCTION	GC97.D93
HARD AND SOFT ACIDS AND BASES	QD477.P39
HOW TO MAKE THE OSHA 1970 WORK FOR YOU	KF3570.Z9S5
INTERNATIONAL AND METRIC UNITS OF MEASUREMENT	QC91.G75
MARINE AQUARIUM KEEPING THE SCIENCE ANIMALS AND ART	SF457.1.S66

1973 BOOK HOLDINGS
FOR LIBRARY:
028 REGION 2 FIELD OFFICE, EDISON, NJ

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM

NOVEMBER CURRENT AWARENESS

ALGAE ABSTRACTS A GUIDE TO THE LITERATURE	QK564.5.A38
CHEMICAL STERILIZATION	QR69.B67
CODES RULES AND REGULATIONS OFFICIAL COMPILATION TITLE 6	KFN5790.A4
HANDBOOK OF CHEMISTRY AND PHYSICS	QD65.H3
INFRATED ANALYSIS OF POLYMERS RESINS AND ADDITIVES AN ATLAS	QD139.P6N813
INTERNATIONAL SYMPOSIUM ON MODELING TECHNIQUES IN WATER RESOURCES SYSTEMS OTTAWA 1972 PROCEEDINGS	TC409.I57
INTRODUCTION TO THE SCIENTIFIC STUDY OF ATMOSPHERIC POLLUTION	TD883.M3
THEORY OF CORROSION AND PROTECTION OF METALS	TA462.TO
TRITIUM	QD466.5T8M6

The Circulation System

Purpose and Scope

This system maintains information on all documents borrowed from an individual library. From the resulting master file, periodic reports (normally weekly) by document title and borrower's name are produced indicating all outstanding library material. In addition to these outputs, a quarterly report by borrower is distributed to all borrowers indicating the material which is over due. The system also provides an on-line clearance check for departing employees. In total, this application allows the librarian to monitor properly all aspects of library materials on loan.

Data Elements

There is one master file containing one record per loaned document. Each record contains the document title; name of borrower; borrower's phone number; borrower's room number; date checked out; date due if inter-library loan; next individual waiting for the document; and the individual's phone number. The file is maintained on-line. Document #16 (page 38) is a sample file format.

Status

All of the computer programs are operational. The system is currently in use in the Washington D.C. library, the National Environmental Research Center libraries in Research Triangle Park, North Carolina, and Cincinnati, Ohio, and the regional libraries in Chicago and Seattle.

Plans

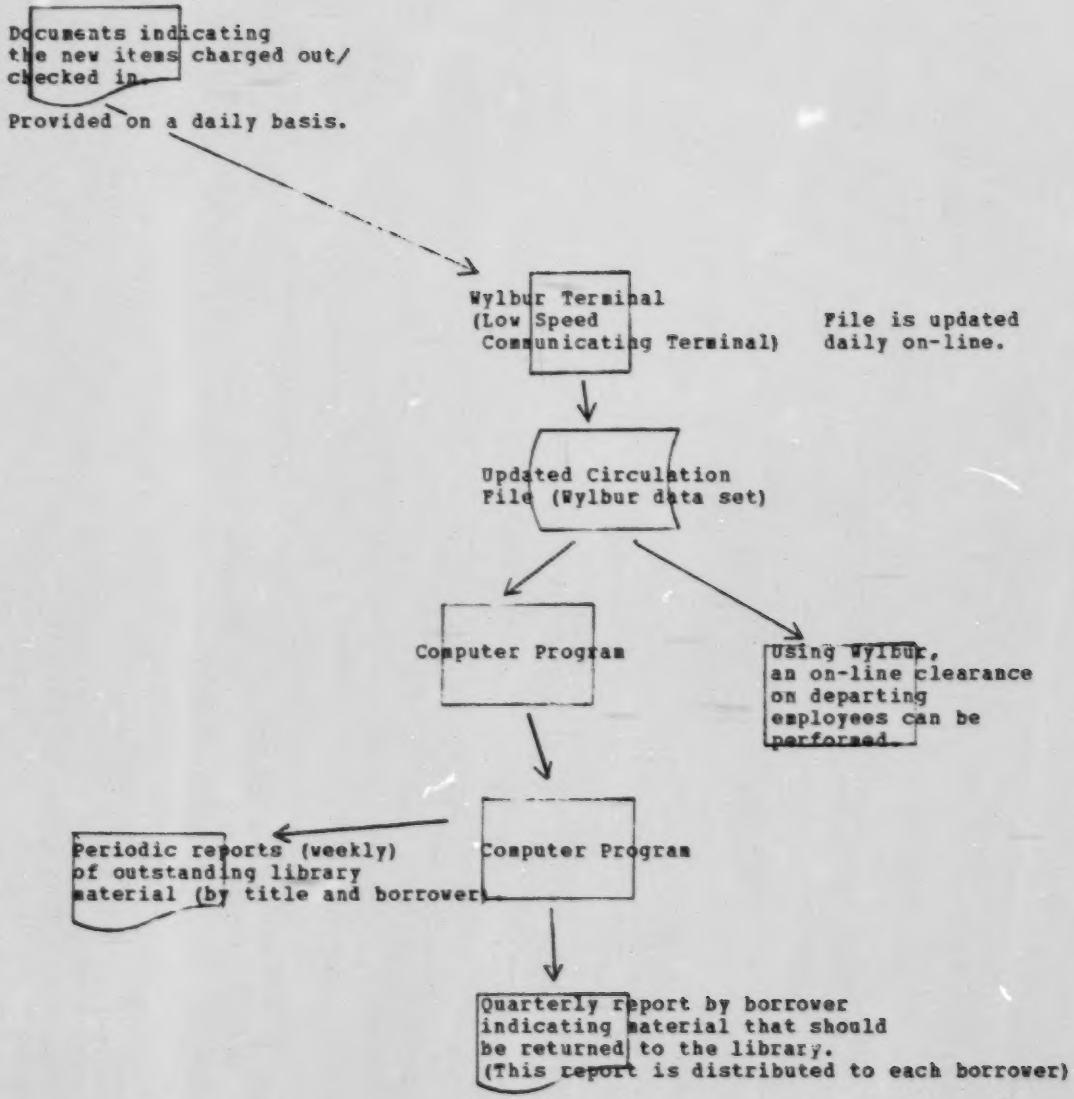
The agency plans to provide this system to any individual EPA library that has sufficient circulation. Many of the agency's libraries are small and will not need this service.

Document #15 (page 37) is a systems flow.
Document #17 (pages 39-40) is a sample of the periodic circulation title report.
Document #18 (pages 41-42) is a sample of the periodic inhouse report by borrower.
Document #19 (pages 43-44) is a sample of the quarterly report by borrower which is distributed to all borrowers.

CIRCULATION SYSTEM

Document #15
The Circulation System

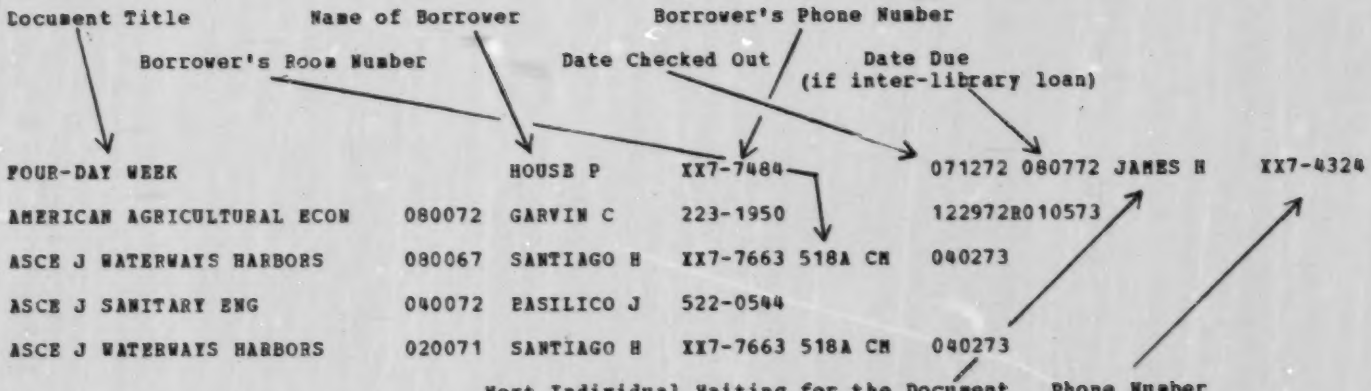
System Flow


Documents indicating the new items charged out/ checked in.
Provided on a daily basis.
Wylbur Terminal (Low Speed Communicating Terminal)
File is updated daily on-line.
Updated Circulation File (Wylbur data set)
Computer Program
Using Wylbur, an on-line clearance on departing employees can be performed.
Periodic reports (weekly) of outstanding library material (by title and borrower).
Computer Program
Quarterly report by borrower indicating material that should be returned to the library. (This report is distributed to each borrower)

Document #16
The Circulation System

Sample File Layout

Master File


Document Title
Name of Borrower
Borrower's Phone Number
Borrower's Room Number
Date Checked Out
Date Due
(if inter-library loan)
FOUR-DAY WEEK HOUSE P XX7-7484 071272 080772 JAMES H XX7-4324
AMERICAN AGRICULTURAL ECON 080072 GARVIN C 223-1950 122972R010573
ASCE J WATERWAYS HARBORS 080067 SANTIAGO H XX7-7663 518A CM 040273
ASCE J SANITARY ENG 040072 BASILICO J 522-0544
ASCE J WATERWAYS HARBORS 020071 SANTIAGO H XX7-7663 518A CM 040273
Next Individual Waiting for the Document
Phone Number

04-13-73
ENVIRONMENTAL PROTECTION AGENCY --- TITLE LISTING OF CIRCUL.FILE
HEADQUARTERS LIBRARY, WATERSIDE MALL, WASHINGTON, D.C.

DOCUMENT TITLE		BORROWER	PH NO	RM NUMBER	DATE OUT	DATE DUE
WATER POLLUTION CTL FED J	050063	REINHARDT H	XX5-5245	3211 WSM	04/06/73	
WATER POLLUTION CTL FED J	020072	JACKNOW J	XX5-2770	3241 WSM	04/11/73	
WATER POLLUTION CTL FED J	010073	URBAN INSTITUTE	223-1950	LIBRARY	04/06/73	04/20/73
WATER POLLUTION CTL FED J	060072	REINHARDT H	XX5-5245	3211 WSM	04/06/73	
WATER POLLUTION CTL FED J	010065	REINHARDT H	XX5-5 45	3211 WSM	04/06/73	
WATER POLLUTION ECOLOGY		BITTERS M	676-7128	GWU LIB	04/02/73	04/16/73
WATER POLLUTION ECONOMIC		MORELL D	XX7-1192	1018 CM	04/09/73	
WATER POLLUTION IN THE U S		LUKEN R	XX5-2573			
WATER QUAL AND TREATMENT		SONNETT W	XX7-7420			
WATER QUAL CRITERIA 3RD ED		BELK T	XX7-7470			
WATER QUALITY AND TRTMT 3D E		LIM B	XX5-0666		03/13/73	
WATER QUALITY CRITERIA		SUTTON W	XX7-0704	801 CM	01/24/73	
WATER QUALITY CRITERIA		HOFFMAN A	XX5-2893	3318 WSM	03/27/73	
WATER RESEARCH	030072	JACKNOW J	XX5-2770	3241 WSM	04/11/73	
WATER RESEARCH		CONWAY E	386-5176	GAO LIB	04/02/73	04/16/73
WATER RESOURCES BULLETIN	020071	HIBBS J	XX5-0648	635W WSM	04/10/73	
WATER RESOURCES DEVELOPMENT		NOTZIN E	XX7-7614			
WATER RESOURCES SYSTEMS ENGN		HEADLEY A	XX5-0672		03/08/73	
WATER SPECTRUM	010072	JACKNOW J	XX5-0946	3617 WSM	04/09/73	
WATER SUPPLY SEWERAGE 2D ED		BERGMAN H	522-7162			
WATER-RESOURCES ENGINEERING		SU Y M	XX7-7490			
WEST VIRGINIA STATE PLAN FY6		PETERS A	XX7-7383			
WKLY COMP PRESDNTL DOCS	030270	LOBIT J	XX5-0646			
WKLY COMP PRESDNTL DOCS	012670	LOBIT J	XX5-0646			
WKLY COMP PRESDNTL DOCS	081169	LOBIT J	XX5-0646			

04-13-73
ENVIRONMENTAL PROTECTION AGENCY --- TITLE LISTING OF CIRCUL.FILE
HEADQUARTERS LIBRARY, WATERSIDE MALL, WASHINGTON, D.C.

DOCUMENT TITLE		BORROWER	PH NO	RM NUMBER	DATE OUT	DATE DUE
WKLY COMP PRESDNTL DOCS	081869	LOBIT J	XX5-0646			
WORLD DYNAMICS		SEIDEL M	522-6335	903 XER	04/05/73	
WORLD HLTH ORG TECH REP 506		JOHNSON M	XX5-0428		02/13/73	03/01/73
WORLD HLTH ORG TECH REP 511		JOHNSON M	XX5-0428		02/13/73	03/01/73
WPCRS 11024DQU10/70		TRUTANIC M	XX5-2573			
WPCRS 11024ELB01/71		TRUTANIC M	XX5-2573			
WPCRS 11034FKL07/70		TRUTANIC M	XX5-2573			
WPCRS 12020EID02/71		MAGRUDER J	762-5820	GEOMET	04/03/73	04/17/73
WPCRS 12060DSI07/71		QUINN H	XX5-0524	811W WSM	03/27/73	
WPCRS 15080---03/69		VRANOR B	XX5-0900		02/23/73	
WPCRS 15090FOZ10/70		VRANOR B	XX5-0900		02/23/73	
WPCRS 16060DMP03/71		PRIVAL M	XX5-0687	701W WSM	03/30/73	
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WPCRS 17090---06/69		JACKNOW J	XX5-0946		02/23/73	
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02-11-74
ENVIRONMENTAL PROTECTION AGENCY - PERIODIC BORROWER REPORT
HEADQUARTERS LIBRARY, WATERSIDE MALL, WASHINGTON, D.C.

CANTOR K				
	WORLD DYNAMICS	XX6-9455 607W WSM	121073	
CARLIN A				
	MANAGING WATER QLTY ECNMCS	XX5-0650 637W WSM	070373	
CARPENTER D				
	PROGRAM BUDGETING	557-7725 819CE WSM	073073	
	TOWARD MORE EFFECTIVE LAND USE	XX6-2828 819E WSM	101673	
	URBAN LAND USE PLANNING	XX6-2828 819E WSM	101673	
CARROLL B				
	ANNALS NY ACADEMY OF SCIENCES VOL 132	XX5-6956 709E WSM	111473	120873
	INTERNATIONAL CONGRESS PHARM 4TH 1969	XX5-6956 709E WSM	102373	110673
CARROLL J				
	ATMOSPHERIC ENVIRONMENT 030073	XX5-2720 3238 WSM	103073	
CASSEL C				
	PB 207 644	265-8882 LIBRARY	080373	081773
CASSELL C				
	CHEMICAL TREATMENT OF SEWAGE	265-8882 LIBRARY	110973	112373
	ELEMENTS OF WATER SUPPLY AND	265-8882 LIBRARY	110973	112373
	LIQUID WASTES OF INDUSTRY	265-8882 LIBRARY	110973	112373
CEDER R				
	JOURNAL OF ENVMTL SCIENCES	XX6-8906 849E WSM	013074	
	SOCIO-ECONOMIC PLANNING SCNCS 040073	XX6-2432 849E WSM	012974	
	SOCIO-ECONOMIC PLANNING SCNCS 020073	XX6-2432 849E WSM	012974	
CESSINE R				
	USDA AGRICULTURAL HANDBOOK 305	XX5-7014 503E WSM	120373	
CESSINE R				
	CONTROL OF AGRICULTURE RLTD	XX5-0714 503E WSM	112073	
	INITIAL ANALYSIS OF ECONOMIC	XX5-0714 503E WSM	112073	
	US AGRICULTURE ENVMTL CTLS AND	XX5-0714 503E WSM	112073	
CHARLTON T				
	OUTLOOK ENERGY US TO 1985	XX7-7307		

02-11-74
ENVIRONMENTAL PROTECTION AGENCY - PERIODIC BORROWER REPORT
HEADQUARTERS LIBRARY, WATERSIDE MALL, WASHINGTON, D.C.

CHERNOFF N					
ENVIRONMENTAL MERCURY PROBLEM		XX5-6180	425E	WSM	092573
CIRCIELLO J					
ASCE IRRIGATION & DRAINAGE J	090072	REG 9	EPA LIB	C71373	072773
CIRELL D P					
GAS CHROMATOGRAPHIC ANALYSIS		XX6-9413	317F	WSM	082173
CIRELLI D P					
STATISTICAL METHODS 6TH ED		XX5-0300	3608	WSM	070573
CLOSE C					
CONSERVATION OF NATL RESOURCES		XX5-0683	715W	WSM	073073
RESOURCES AND MAN		XX5-0683	715W	WSM	062973
SCARCITY AND GROWTH		XX5-0683	715W	WSM	073073
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COHEN V					
AUTOMATIC DATA PROCESSING		XX5-0811	3614	WSM	071073 072473
CONIGLIO W					
APTD-0979		XX5-2110	703E	WSM	121273
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APTD-1466		XX5-2110	703F	WSM	121273
APTD-1543		XX5-2110	703F	WSM	121273
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PB 188 086	C1	XX5-2110	703E	WSM	121273
PB 188 090	C1	XX5-2110	703E	WSM	121273
PB 199 058		XX5-2110	703F	WSM	121273
CONWAY E					
NATURAL RESOURCES JOURNAL	040070	386-5176	GAO LIB	011674	013074
NATURE FRIDAY	080373	386-5176	GAO LIB	011674	013074
NATURE FRIDAY	092173	386-5176	GAO LIB	011674	013074
COOK D					
ENVIRONMENTAL DEMONSTRATIONS		XX5-2937	3105	WSM	092773

Document #19

04-13-73

ENVIRONMENTAL PROTECTION AGENCY
HEADQUARTERS LIBRARY, WATERSIDE MALL, WASHINGTON, D.C.

TO: JOHNSON E L

THE FOLLOWING LIBRARY MATERIAL HAS BEEN CHARGED TO YOUR NAME:

FIRST SIGNIFICANT WORDS OF TITLE	DATE CHECKED OUT
MANS IMPACT ON GLOBAL ENVRMT	
POLITICS OF ECOLOGY	

IN ORDER TO UPDATE LIBRARY RECORDS, PLEASE ADVISE MR. BRUCE INGALLS (755-0308) OF THE STATUS OF THIS OUTSTANDING MATERIAL.

04-13-73
ENVIRONMENTAL PROTECTION AGENCY
HEADQUARTERS LIBRARY, WATERSIDE MALL, WASHINGTON, D.C.

TO: JOHNSON R

THE FOLLOWING LIBRARY MATERIAL HAS BEEN CHARGED TO YOUR NAME:

FIRST SIGNIFICANT WORDS OF TITLE	DATE CHECKED OUT
SCIENCE	100369

IN ORDER TO UPDATE LIBRARY RECORDS, PLEASE ADVISE MR. BRUCE INGALLS (755-0308) OF THE STATUS OF THIS OUTSTANDING MATERIAL.

PESTICIDES LITERATURE SEARCH SYSTEM

The Pesticides Literature Search System
(This system has been developed for the Technical Services Division in the Office of Pesticide Programs.)

Purpose and Scope

This system gathers bibliographic information on literature concerned with the health aspects of pesticides. From the resulting master file, various, complete and refined bibliographies are generated. The bibliographies are available by author, subject classification, CAS Registry Number, and date of publication. These bibliographies will be generally available in both printed form and on microfiche. By using these bibliographies, literature will be readily identified that will satisfy a particular users information need. The Technical Services Division also maintains an inventory of the articles. All articles revieved since 1969, are available on microfiche.

Data Elements

All of the bibliographic information is contained in a single file format. The data elements include a unique bibliographic identification number; primary and secondary authors; CAS Registry Number (unique compound number assigned by The Chemistry Abstract Service); HAPAB Abstract Number (the number of the abstract as it appears in the published bulletin); title of the article; source of the article (and type); year of publication; remarks field; foreign language (if applicable); and the primary and secondary subject classifications (assigned by the Technical Services Division). This represents a comprehensive bibliographic system which allows the data managers and users to access the data in every meaningful way. Document #21 (page 48) is a sample file format.

Status

All of the computer programs are operational. The history bibliographies number over 30,000. For this reason, a large portion of the citations will be prepared under contract. Currently, members of the Technical Services Division have converted 1000 of the history bibliographies to machine readable form. When the history file is complete (approximately December, 1974) it will be maintained on magnetic tape.

Also, the staff is using the system to gather and maintain all new bibliographies. The first computer generated current awareness report was distributed in April, 1973.

Plans

The efforts necessary to convert the large history file to machine readable form are proceeding as rapidly as possible. The staff will continue to use the system to gather and maintain all current citations. Computer generated current bibliographies will be made available as needed.

Document #20 (page 47) is a systems flow.
Document #22 (pages 49-50) is a sample of the subject classification report.

Document #23 (pages 51-52) is a sample of the author report.
Document #24 (pages 53-54) is a sample of the date of publication report.
Document #25 (pages 55-56) is a sample of the journal (source) title report.

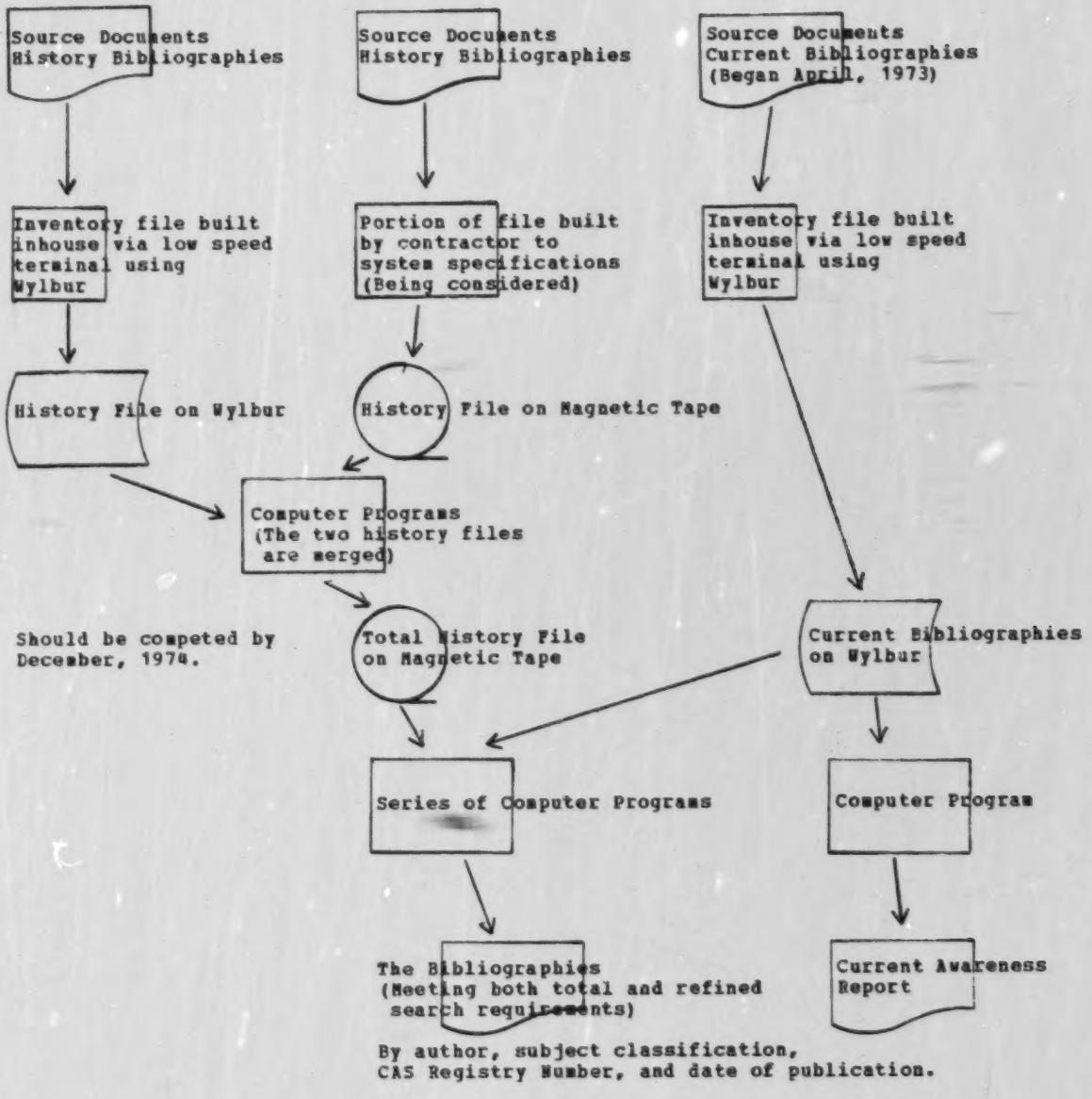
These reports represent the basic report inventory. Additional reports are available.

A refined bibliographic search can be generated and printed in report forms #22-24.

All report heading information can be adjusted to a particular user's need.

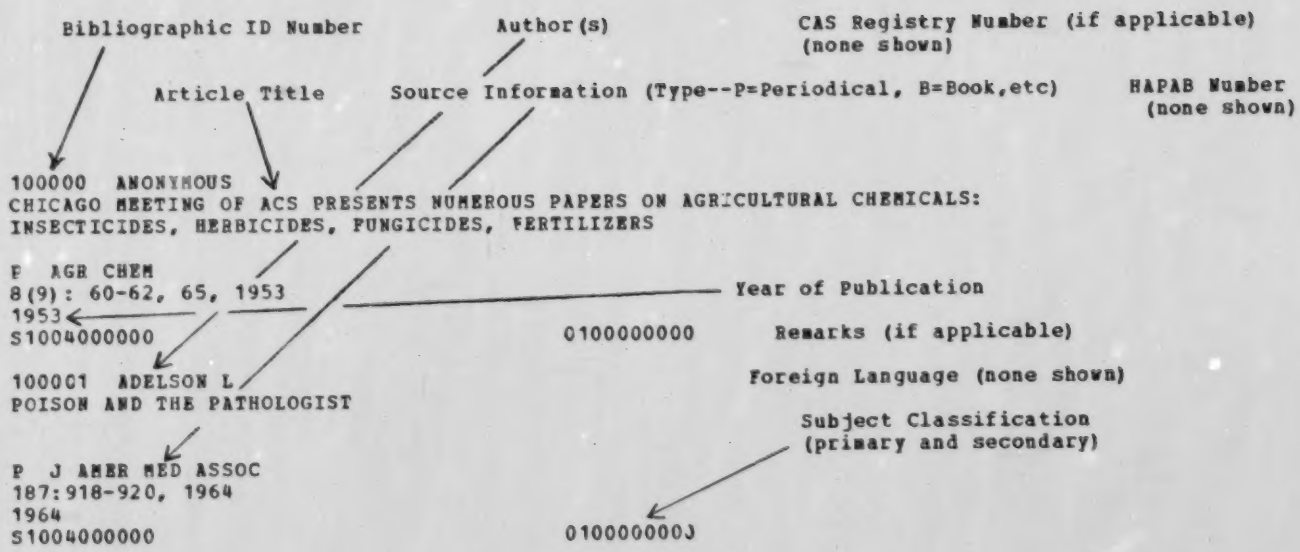
Document #20
Pesticides Literature Search System

System Flow


Source Documents
History Bibliographies
Source Documents
History Bibliographies
Source Documents
Current Bibliographies
(Began April, 1973)
Inventory file built inhouse via low speed terminal using Wylbur
Portion of file built by contractor to system specifications (Being considered)
Inventory file built inhouse via low speed terminal using Wylbur
History File on Wylbur
History File on Magnetic Tape
Computer Programs
(The two history files are merged)
Should be competed by December, 1974.
Total History File on Magnetic Tape
Current Bibliographies on Wylbur
Series of Computer Programs
Computer Program
The Bibliographies
(Meeting both total and refined search requirements)
Current Awareness Report
By author, subject classification, CAS Registry Number, and date of publication.

Document #21 Sample File Layout
The Pesticides Literature Search System

Master File



01-18-73
ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

CLASSIFICATION NO/AUTHOR/PUBL YR SCHEDULE

PROG: PEST.CLASSAUTH

1004000000 1959
1201000000

SHEPARD H H

THE PESTICIDE SITUATION FOR 1958-59. GENERAL OUTLOOK
USDA COMMODITY STABILIZATION SVC, WASH D C PP 24, APR 1959
LANGUAGE*
HAPAB NO: CAS:
100576 REMARKS:

S1004000000 1965
1200000000

MITCHELL L E

PESTICIDES: PROPERTIES AND PROGNOSIS
AMERICAN CHEMICAL SOCIETY, 150TH NAT MEETING, SEPT. 13-17, 1965
LANGUAGE*
HAPAB NO: CAS:
100541 REMARKS:

S1004000000 1969
2100000000

BRODIE B B
SOME PROSPECTS IN TOXICOLOGY
ENVIRON RES
2(5-6):368-72, 1969
LANGUAGE*
HAPAB NO: CAS:
100585 REMARKS:

S1004000000 1964
2106060000

ALPERT J J
TREATMENT OF ACUTE POISONING
BRIT MED J
2:1593, 1964
LANGUAGE*
HAPAB NO: CAS:
100627 REMARKS: IM 65-1120, 1965

01-18-73 Document #22
ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

CLASSIFICATION NO/AUTHOR/PUBL YR SCHEDULE

PROG: PEST.CLASSAUTH

1964

S1004000000
0100000000

ADELSON L
POISON AND THE PATHOLOGIST
J AMER MED ASSOC
187:918-920, 1964
LANGUAGE*
HAPAB NO: CAS:
100001 REMARKS:

1953

S1004000000
0100000000

ANONYMOUS
CHICAGO MEETING OF ACS PRESENTS NUMEROUS PAPERS ON AGRICULTURAL CHEMICALS: INSECTICIDES, HERBICIDES, FUNGICIDES, FERTILIZERS
AGR CHEM
8(9): 60-62, 65, 1953
LANGUAGE*
HAPAB NO: CAS:
100000 REMARKS:

1953

S1004000000
0100000000

BARNES J M
SELECT BIBLIOGRAPHY ON THE TOXICOLOGY OF PESTICIDES IN MAN AND MAMMALS
BULL WLD HLTH ORGAN
8(4):535-589, 1953
LANGUAGE*
HAPAB NO: CAS:
100002 REMARKS:

1957

S1004000000
0100000000

BARNES J M
CONTROL OF HEALTH HAZARDS ASSOCIATED WITH THE USE OF PESTICIDES
ADVANCES PEST CONTROL RESEARCH
VOL 1 EDITED BY R L METCALF, INTERSCIENCE, NEW YORK, 1957
LANGUAGE*
HAPAB NO: CAS:
100003 REMARKS:

01-18-73
ENVIRONMENTAL PROTECTION AGENCY AUTHOR/YEAR SCHEDULE
TECHNICAL SERVICES DIVISION

PROG: PEST.AUTHYEAR

AINSWORTH M 1960 S1004000000
0203010500
METHODS FOR MEASURING PERCUTANEOUS ABSORPTION
J SOC COSMETIC CHEM
XI(2):59-78, 1960
LANGUAGE*
HAPAB NO: CAS:
100037 REMARKS:

ALABASTER J S 1965 S1004000000
ABRAM F S H 0203010500
ESTIMATING THE TOXICITY OF PESTICIDES TO FISH
PANS
11(2):91-8, 1965
LANGUAGE*
HAPAB NO: CAS:
100038 REMARKS: ABST: WHO INFORM CIRC NO. 20: ABST NO. 45, 1966

ALARIE Y 1966 S1004000000
0203010500
IRRITATING PROPERTIES OF AIRBORNE MATERIALS TO THE UPPER RESPIRATORY TRACT
ARCH ENVIRON HLTH
13:433-449, 1966
LANGUAGE*
HAPAB NO: CAS:
100039 REMARKS:

ALAZS T 1963 S1004000000
ET AL 2103110000
RENAL TESTS IN TOXICITY STUDIES ON RATS
TOXICOL APPL PHARMACOL
5:661-74, 1963
LANGUAGE*
HAPAB NO: CAS:
10610 REMARKS:

01-18-73
ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

AUTHOR/YEAR SCHEDULE

PROG: PEST.AUTHYEAR

ALBAHARY C
MARTIN S — 1962 — S1004000000, 2103000000

HEMATOLOGICAL PROBLEMS POSED BY VARIOUS OCCUPATIONAL DISEASES
NOUV REV FRANC HEMAT
2:230-240, 1962
LANGUAGE*
HAPAB NO:
100607 REMARKS:
CAS:

ALPERT J J — 1964 — S1004000000, 2106060000

TREATMENT OF ACUTE POISONING
BRIT MED J
2:1593, 1964
LANGUAGE*
HAPAB NO:
100627 REMARKS: IM 65-1120, 1965
CAS:

AMA COUN IND HLTH — 1954 — S1004000000, 2001100000

ROLE OF THE PATCH TEST IN CONTACT DERMATITIS
J AMER MED ASSOC
156:501, 1954
LANGUAGE*
HAPAB NO:
100578 REMARKS:
CAS:

1958 — S1004000000, 2001100000

OCCUPATIONAL DERMATOSES. A SERIES OF FIVE REPORTS.
AMER MED ASSOC
167:1636-1637,2203-2205, 1958 & 168:516-520,1351-1359, 1958 & 169:1340-1344, 1959
LANGUAGE*
HAPAB NO:
100579 REMARKS: 1959
CAS:

YEAR OF PUBLICATION SCHEDULE

PROG: PEST.YEARAUTH

1970

S1004000000
1200000000
BLAKE H T ET AL

FARMERS' PESTICIDE EXPENDITURES IN 1966
USDA ECONOMIC RESEARCH SERVICE AGR ECON REPORT NO 192, 43PP.,1970
LANGUAGE*
HAPAB NO:
100506 REMARKS: CAS:

S1004000000
1200000000
FISHERS T
QUANTITIES OF PESTICIDES USED BY FARMERS IN 1966
QUANTITIES OF PESTICIDES USED BY FARMERS IN 1966
USDA, ECONOMIC RES. SER., AGR. ECON REPORT NO. 179, 61 PP, 1970
LANGUAGE*
HAPAB NO:
100518 REMARKS: CAS:

S1004000000
1200000000
FOWLER D L ET AL

PESTICIDE REVIEW 1969
USDA, AGR. STABILIZATION & CONSERVATION SER., 48 PP., 1970
LANGUAGE*
HAPAB NO:
100519 REMARKS: CAS:

S1004000000
0203010500
FRIEDMAN L
SYMPOSIUM ON THE EVALUATION OF THE SAFETY OF FOOD ADDITIVES AND CHEMICAL RESIDUES: II. THE ROLE OF THE LABORATORY ANIMAL STUDY OF INTERMEDIATE DURATION FOR EVALUATION OF SAFETY
TOXICOL APPL PHARMACOL
16(2):498-506, 1970
LANGUAGE*
HAPAB NO:
100092 REMARKS: CAS:

PROG: PEST.YEARAUTH

1969

S1004000000
1200000000
JENKINS R ET AL

PESTICIDE APPLICATION EQUIPMENT OWNED BY FARMERS, 48 STATES
USDA, ARS, ECON RES SERV, AGR ECON REP NO. 161, 1969
LANGUAGE*
100529 HAPAB NO: CAS:
REMARKS:

S1004000000
2100000000
LAMOTTE L C
PESTICIDES AND HUMAN HEALTH--A QUERY
BULL ENTOMOL SOC AMER
15(4):373-6, 1969
LANGUAGE*
100600 HAPAB NO: CAS:
REMARKS:

S1004000000
0203010500
NAS/NRC FOOD PROTECT COMM

GUIDELINES FOR ESTIMATING TOXICOLOGICALLY INSIGNIFICANT LEVELS OF CHEMICALS IN FOOD
NAS/NRC 8 PP, 1969
LANGUAGE*
100088 HAPAB NO: CAS:
REMARKS:

01-19-73
ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

PERIODICAL TITLE LISTING

PROG: PEST.PERTITLE

ACTA PHYSIOL PHARMACOL NEERLAND

ACTA PHYSIOL SCAN

ACTUALITIES PHARMACOL

ADV CHEM SER

ADVANCES IN CHEMISTRY SERIES

ADVANCES PEST CONTROL RESEARCH

AGR CHEM

AGR RESEARCH

AM IND HYG ASSOC J

AMA ARCH INDUST HEALTH

AMA ARCH INDUST HYG OCCUP MED

AMER IND HYG ASSOC J

AMER J MED SCI

AMER SCIENT

AMER SOC AGR ENG TRANS

ANN AGR FENN

ANN APPL BIOL

ANN EPIPHYTIES

ANN NY ACAD SCI

ANN REV PHARMACOL

ANNU REV PHARMACOL

ANNUAL REVIEW OF ENTOMOLOGY

ARCH ENVIRON HEALTH

ARCH ENVIRON HLTH

01-19-73
ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL SERVICES DIVISION

PERIODICAL TITLE LISTING

PROG: PEST.PERTITLE

ARCH INDUSTR HYG OCCUP MED

ARCH INT MED

ARCH INT PHARMACODYN

ARCH MAL PROF

ARCH TOXIKOL

AUDUBON BULL

BOLL IST PATOL LIBRO

BOYCE THOMPSON INST

BRIT MED J

BRIT VET J

BULL ENTOMOL SOC AMER

BULL WLD HLTH ORGAN

CANAD FARM IMPL

CANAD J BIOCHEM

CANAD J PHYSIOL PHARMACOL

CANAD MED ASSOC J

CANCER CHEMO REP

CAROLINA MED J

CHEM AND CHEM PROCESS INDUSTRIES

CHEM ENG NEWS

CHEM ENG PROG

CHEM IND

CHEM WEEK

CIENCE

ECOLOGICAL AIR POLLUTANT LITERATURE SEARCH SYSTEM

The Ecological Air Pollutant Literature Search System
(This system has been developed for the National Ecological Research Laboratory.)

Purpose and Scope

This system gathers bibliographic information on literature principally concerned with air pollutants and their effects on vegetation and animals. In addition, some citations deal in the research support areas and in heavy metals. Computer generated bibliographies (by author, subject, article title, and library reprint number), will be produced from the master file. The referenced literature is available in The National Ecological Research Laboratory's reprint library. By using these bibliographies, literature meeting a particular information need can be readily identified and made available to the user. Total bibliographies will be available on microfiche as well as in printed form.

Data Elements

All bibliographic information is contained in a single file format. The data elements include a unique bibliographic identification number; up to four authors; up to nine subjects (selected from a subject thesarus); a library reprint number (indicates the location of the article in the library); the article title; source information; translation information (if applicable); Air Pollution Technical Information Center number (APTIC); date of publication; and a remarks field (if applicable). This bibliography completely identifies pertinent literature in this subject area. Document #27 (page 59) is a sample file format.

Status

All of the computer programs are operational. Currently, there are approximately 6,000 citations (bibliographies) on file in The National Ecological Research Laboratory's library. Under contract, these bibliographies have been converted to the system specifications. The retrospective master file is complete. The various bibliographic reports are available on microfiche (COM).

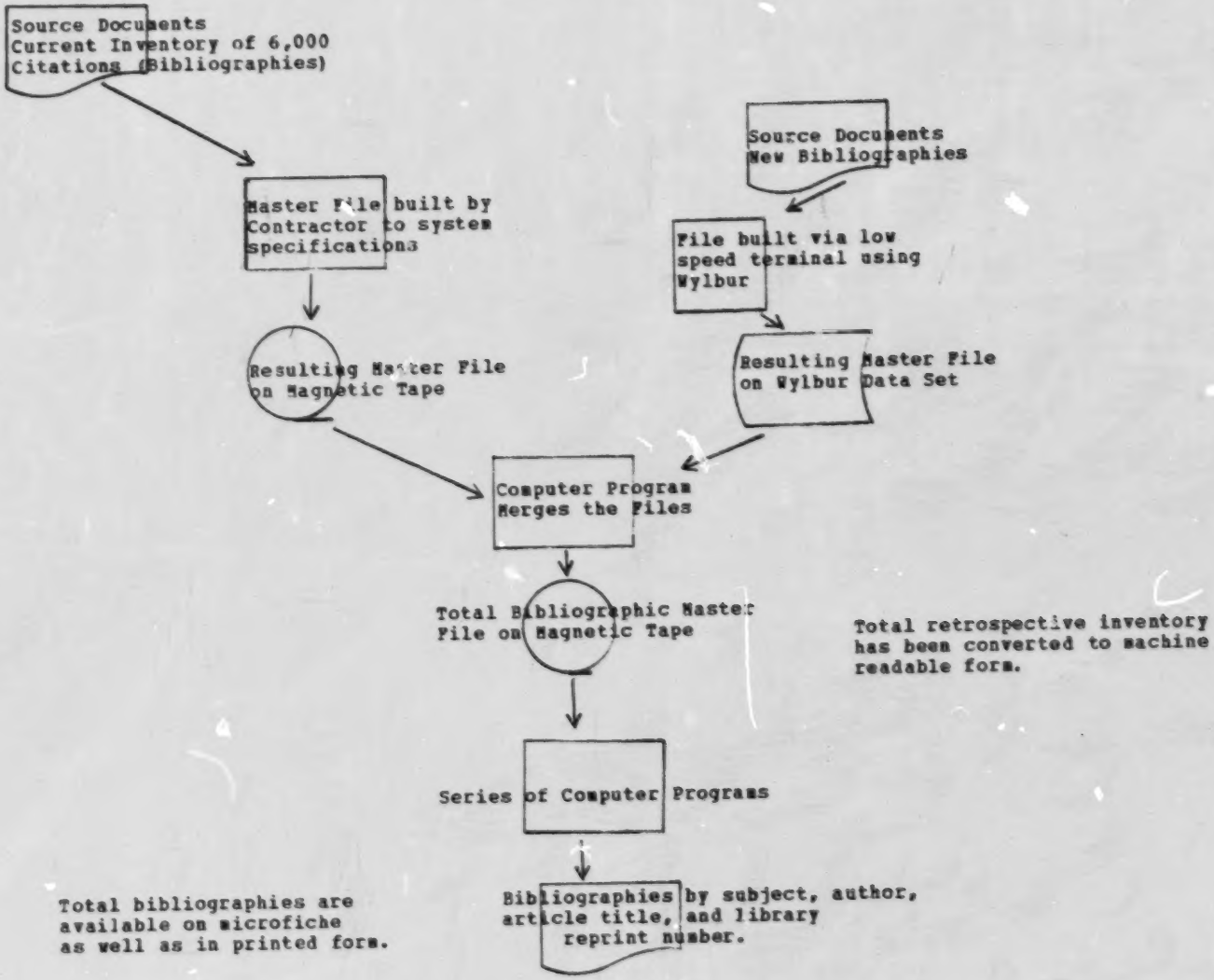
Plans

In March, 1974, new bibliographies will be added to the master file (using Wylbur) as needed. Requested bibliographies should be available within 24 hours of the time requested. Refined bibliographies can be generated with variable heading information. The master file will be permanently maintained on magnetic tape. The full articles are to be microfiched to enhance distribution at very reduced costs.

Document #26 (page 58) is a system flow.
Document #28 (pages 60-61) is a sample of the article title report.
Document #29 (pages 62-63) is a sample of the library reprint number report.
Document #30 (pages 64-65) is a sample of the primary author report.
Document #31 (pages 66-67) is a sample of the author report-multiple indexed.
Each article is shown under all assigned authors.
An '*' indicates the primary author in all cases.
Document #32 (pages 68-69) is a sample of the subject report-multiple indexed.
Each article is shown under all assigned subjects.

This represents the basic (but not complete) report inventory.

Document #26 System Flow
The Ecological Air Pollutant Literature
Search System

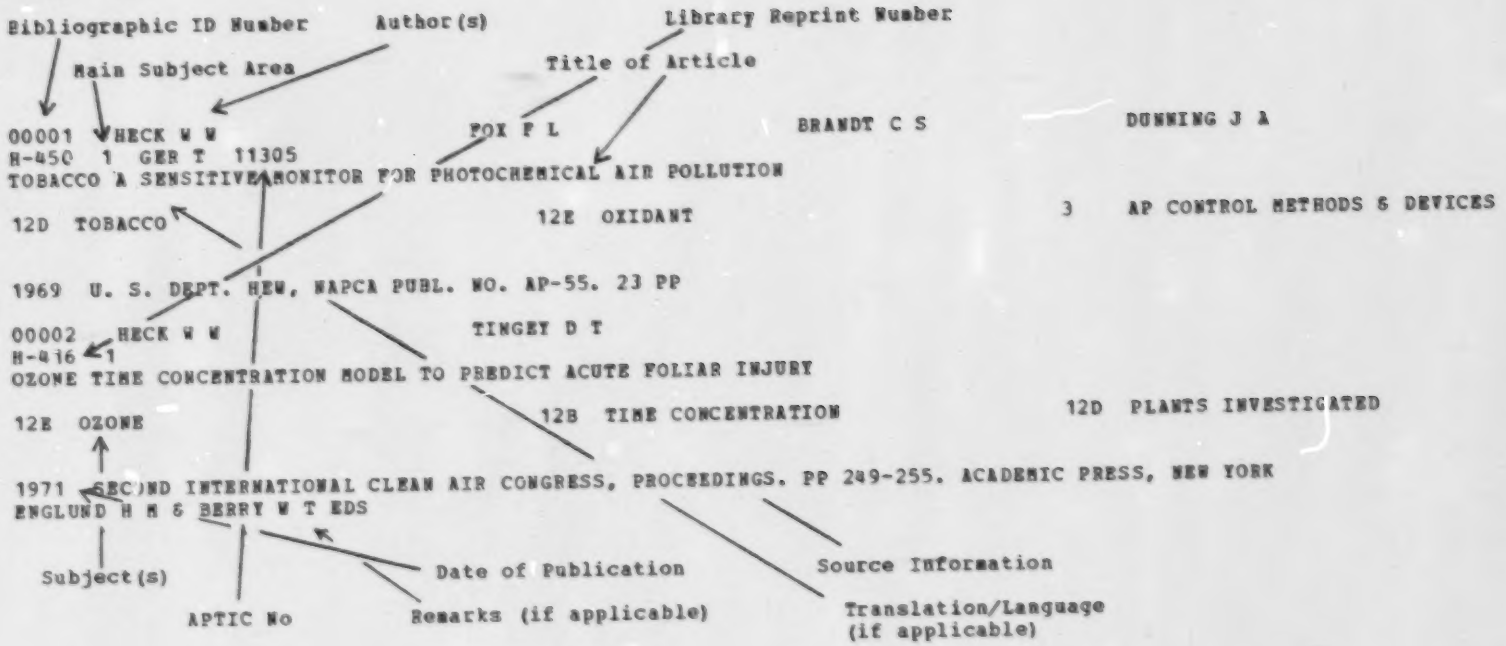


Total retrospective inventory has been converted to machine readable form.

Total bibliographies are available on microfiche as well as in printed form.

Document #27 Sample File Layout
The Ecological Air Pollutant Literature
Search System

Master File



PROG: AP.TITLE

ABSCISSION: ROLE OF PROTEIN SYNTHESIS
A-203 ABELES F B HOLM R E
1967 ANNALS N. Y. ACAD. SCI. 144(ART.1):367-373 2
SUBJECT(S):
278 ABSCISSION 27C NITROGEN METABOLISM 12D COTTON
278 ETHYLENE (PHYS) 12D BEAN

ABSCISSION: THE ROLE OF AGING
A-093 ABELES F B HOLM R E GAHAGAN H E
1967 PLANT PHYSIOL. 42:1351-1356 2
SUBJECT(S):
12B BEAN 278 ETHYLENE (PHYS) 278 ABSCISSION
278 SENESCENCE 23 MEASUREMENTS 278 GROWTH REGULATIOORS

BIOCHEMICAL PATHWAY OF STRESS-INDUCED ETHYLENE
A-251 ABELES A L ABELES F B
1972 PLANT PHYSIOL. 50:496-498 1
SUBJECT(S):
278 ETHYLENE (PHYS) 12D BEAN 12D TOBACCO
12E OZONE 27C RESPIRATION 27C PHOTOSYNTHESIS
278 GROWTH REGULATORS

CELL-FREE ETHYLENE EVOLUTION FROM ETIOLATED PEA SEEDLINGS
A-052 ABELES F B RUBENSTEIN B
1964 BIOCHEM. BIOPHYS. ACTA 93:675-677 2
SUBJECT(S):
12D PEA 278 ETHYLENE (PHYS)

EFFECT OF ETHYLENE ON AUXIN TRANSPORT
A-004 ABELES F B
1966 PLANT PHYSIOL 41:946-948 2
01179 SUBJECT(S):
278 ETHYLENE (PHYS) 12D CORN 12D SUNFLOWER
12D COTTON 12D BEAN 12D COLEUS
308 AUXIN

PROG: AP.TITLE

ETHYLENE PRODUCTION FROM LINOLENIC ACID
A-032 ABELES F B
1966 NATURE 210(5031):23-25 2
SUBJECT(S):
120 PEA 120 BEAN 278 ETHYLENE (PHYS)

MECHANISM OF ACTION OF ABSCISSION ACCELARATORS
A-124 ABELES F B
1967 PHYSIOL. PLANT. 20:442-454 2
SUBJECT(S):
278 AUXINS 128 COTTON 278 ABSCISSION
278 SENESCENCE 278 ETHYLENE (PHYS)

ORGANOCHLORINE PESTICIDES IN THE ATMOSHPERE
A-028 ABBOTT D C HARRISON R B TATTON J O THOMSON J
5
1966 NATURE 211(5046):259-261
SUBJECT(S):
12E CHLORINE COMPOUNDS 25 PESTICIDES 23 CHEMICAL

ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT
A-143 ABBOTT D C HARRISON R B TATTON J O THOMSON J
5
1965 NATURE 208:1317-1318
SUBJECT(S):
25 INSECTICIDES

01-18-73
ENVIRONMENTAL PROTECTION AGENCY

RE-PRINT NUMBER LISTING

PROG: AP.REPRINTNO

A-004 ABELES F B
EFFECT OF ETHYLENE ON AUXIN TRANSPORT
1966 PLANT PHYSIOL 41:946-948
01179 SUBJECT(S):
278 ETHYLENE (PHYS)
120 COTTON
308 AUXIN
120 CORN
120 BEAN
2
120 SUNFLOWER
120 COLEUS

A-028 ABBOTT D C HARRISON R B TATTON J O THOMSON J
ORGANOCHLORINE PESTICIDES IN THE ATMOSHPERE
1966 NATURE 211(5046):259-261
SUBJECT(S):
12F CHLORINE COMPOUNDS
25 PESTICIDES
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23 CHEMICAL

A-032 ABELES F B
ETHYLENE PRODUCTION FROM LINOLENIC ACID
1966 NATURE 210(5031):23-25
SUBJECT(S):
120 PEA
120 BEAN
2
278 ETHYLENE (PHYS)

A-052 ABELES F B RUBENSTEIN B
CELL-FREE ETHYLENE EVOLUTION FROM ETIOLATED PEA SEEDLINGS
1964 BIOCHEM. BIOPHYS. ACTA 93:675-677
SUBJECT(S):
120 PEA
278 ETHYLENE (PHYS)
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A-083 ABELES F B HOLM R E GAHAGAN H E
ABSCISSION: THE ROLE OF AGING
1967 PLANT PHYSIOL. 42:1351-1356
SUBJECT(S):
128 BEAN
278 SENESCENCE
278 ETHYLENE (PHYS)
23 MEASUREMENTS
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278 ABSCISSION
278 GROWTH REGULATIOORS

A-124 ABELES F B
MECHANISM OF ACTION OF ABSCISSION ACCELARATORS
1967 PHYSIOL. PLANT. 20:442-454
SUBJECT(S):
278 AUXINS
278 SENESCENCE
128 COTTON
278 ETHYLENE (PHYS)
2
278 ABSCISSION

01-18-73
ENVIRONMENTAL PROTECTION AGENCY RE-PRINT NUMBER LISTING

PROG: AP.REPRINTNO

:-140 ABBOTT D C HARRISON R B TATTON J O THOMSON J
ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT
1965 NATURE 208:1317-1318 5
SUBJECT(S):
25 INSECTICIDES

A-203 ABELES F B HOLM R E
ABSCISSION: ROLE OF PROTEIN SYNTHESIS
1967 ANNALS N. Y. ACAD. SCI. 144(ART.1):367-373 2
SUBJECT(S):
27B ABSCISSION 27C NITROGEN METABOLISM 12D COTTON
27B ETHYLENE (PHYS) 12D BEAN

A-251 ABELES A L ABELES F B
BIOCHEMICAL PATHWAY OF STRESS-INDUCED ETHYLENE
1972 PLANT PHYSIOL. 50:496-498 1
SUBJECT(S):
27B ETHYLENE (PHYS) 12D BEAN 12D TOBACCO
12F OZONE 27C RESPIRATION 27C PHOTOSYNTHESIS
27B GROWTH REGULATORS

PROG: AP.AUTH

ABBOTT D C HARRISON R B TATTON J O THOMSON J 5 A-140
ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT
1965 NATURE 208:1317-1318
SUBJECT(S):
25 INSECTICIDES

HARRISON R B TATTON J O THOMSON J 5 A-028
ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERE
1966 NATURE 211(5046):259-261
SUBJECT(S):
12E CHLORINE COMPOUNDS 25 PESTICIDES 23 CHEMICAL

ABELES A L ABELES F B 1 A-251
BIOCHEMICAL PATHWAY OF STRESS-INDUCED ETHYLENE
1972 PLANT PHYSIOL. 50:496-498
SUBJECT(S):
27B ETHYLENE (PHYS) 12D BEAN 12D TOBACCO
12F OZONE 27C RESPIRATION 27C PHOTOSYNTHESIS
27B GROWTH REGULATORS

ABELES F B RUBENSTEIN B 2 A-052
CELL-FREE ETHYLENE EVOLUTION FROM ETIOLATED PEA SEEDLINGS
1964 BIOCHEM. BIOPHYS. ACTA 93:675-677
SUBJECT(S):
12D PEA 27B ETHYLENE (PHYS)

2 A-032
ETHYLENE PRODUCTION FROM LINOLENIC ACID
1965 NATURE 210(5031):23-25
SUBJECT(S):
12D PEA 12D BEAN 27B ETHYLENE (PHYS)

2 A-004
EFFECT OF ETHYLENE ON AUXIN TRANSPORT
1965 PLANT PHYSIOL 41:946-948 01179
SUBJECT(S):
27B ETHYLENE (PHYS) 12D CORN 12D SUNFLOWER
12D COTTON 12D BEAN 12D COLEUS
30B AUXIN

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ABELES F B 2 A-124
MECHANISM OF ACTION OF ABSCISSION ACCELARATORS
1967 PHYSIOL. PLANT. 20:442-454
SUBJECT(S):
27B AUXINS
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27B ABSCISSION

HOLM R E GAHAGAN H E 2 A-083
ABSCISSION: THE ROLE OF AGING
1967 PLANT PHYSIOL. 42:1351-1356
SUBJECT(S):
12B BEAN
27B SENESCENCE
27B ETHYLENE (PHYS)
23 MEASUREMENTS
27B ABSCISSION
27B GROWTH REGULATIOORS

HOLM R E 2 A-203
ABSCISSION: ROLE OF PROTEIN SYNTHESIS
1967 ANNALS N. Y. ACAD. SCI. 144(ART.1):367-373
SUBJECT(S):
27B ABSCISSION
27B ETHYLENE (PHYS)
27C NITROGEN METABOLISM
12D BEAN
12D COTTON

ENVIRONMENTAL PROTECTION AGENCY AUTHOR LISTING

PROG: AP.AUTHIND

*ABBOTT D C
ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT
1965 A-140 HARRISON R B TATTON J O THOMSON J

ORGANOCHLORINE PESTICIDES IN THE ATMOSHPERE
1966 A-028 HARRISON R B TATTON J O THOMSON J

*ABELES A L
BIOCHEMICAL PATHWAY OF STRESS-INDUCED ETHYLENE
1972 A-251 ABELES F B

*ABELES F B
CELL-FREE ETHYLENE EVOLUTION FROM ETIOLATED PEA SEEDLINGS
1964 A-052 RUBENSTEIN B

ETHYLENE PRODUCTION FROM LINOLENIC ACID
1966 A-032

EFFECT OF ETHYLENE ON AUXIN TRANSPORT
1966 A-004

ABSCISSION: ROLE OF PROTEIN SYNTHESIS
1967 A-203 HOLM R E

MECHANISM OF ACTION OF ABSCISSION ACCELARATORS
1967 A-124

ABSCISSION: THE ROLE OF AGING
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ABELES F B
BIOCHEMICAL PATHWAY OF STRESS-INDUCED ETHYLENE
1972 A-251 *ABELES A L

GAHAGAN H E
ABSCISSION: THE ROLE OF AGING
1967 A-083 *ABELES F B HOLM R E

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HARRISON R B
ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT
1965 A-140 *ABBOTT D C TATTON J O THOMSON J

ORGANOCHLORINE PESTICIDES IN THE ATMOSHPERE
1966 A-028 *ABBOTT D C TATTON J O THOMSON J

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ABSCISSION: THE ROLE OF AGING
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ABSCISSION: ROLE OF PROTEIN SYNTHESIS
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CELL-FREE ETHYLENE EVOLUTION FROM ETIOLATED PEA SEEDLINGS
1964 A-052 *ABELES F B

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ORGANOCHLORINE PESTICIDES IN THE ATMOSPHERIC ENVIRONMENT
1965 A-140 *ABBOTT D C HARRISON R B THOMSON J

ORGANOCHLORINE PESTICIDES IN THE ATMOSHPERE
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THOMSON J
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1965 A-140 *ABBOTT D C HARRISON R B TATTON J

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1966 A-028 *ABBOTT D C HARRISON R B TATTON J

ENVIRONMENTAL PROTECTION AGENCY SUBJECT LISTING

PROG: AP.SUBJNO

REVIEWS 4520

1 AIR CONSERVATION REPORT REFLECTS NATIONAL CONCERN
D-0048 1965 DIXON J P

1 EFFECT ON PLANTS OF AIR POLLUTANTS DERIVED FROM MOTOR VEHICLE EMISSIONS
D-0070 DARLEY E F

1 EFFECT OF PEROXYACETYL NITRATE ON PLANTS PHOTOREDUCTIVE REACTIONS AND SUSCEPTIBILITY OF BEAN PLANTS TO PAN
D-0091 1968 DUGGER W M JR

1 REVIEW OF LITERATURE ON HEALTH HAZARDS OF FLUORINE AND ITS COMPOUNDS IN THE MINING AND ALLIED INDUSTRIES
D-0097 1954 DAVENPORT S J

1 AIR POLLUTANTS AND PLANT RESPONSE
D-0102 1967 DAINES R H

1 AIR POLLUTION OXIDANTS THEIR EFFECTS ON METABOLIC PROCESSES IN PLANTS
D-0122 1970 DUGGER W M JR

1 EFFECT OF AIR POLLUTANTS ON VEGETATION
D-0249 1971 DARLEY E F

1 TOXIC PROPERTIES OF INORGANIC FLUORINE COMPOUNDS CHAPTER 2 EFFECTS ON ANIMALS CHAPTER 3 OTHER EFFECTS
E-0078 1969 EAGERS R Y

1 MERCURY PROBLEM IN SWEDEN
E-0112 1971 EMMELIN L

1 ANALYTICAL METHODS FOR AIR POLLUTANTS
F-0037 1963 FELDSTEIN M

1 PLANTS AND POLLUTION
F-0079 1970 FOY C L

1 TOXIC EFFECTS OF CADMIUM A REVIEW
F-0105 1971 FLICK D F

ENVIRONMENTAL PROTECTION AGENCY SUBJECT LISTING

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REVIEWS 4520
2 SULFUR DEFICIENCY IN SOILS
C-0012 1945 CROCKER W

2 SULPHUR CONTENT OF PLANTS
F-0066 1935 FRAZER J

METABOLISM 4690
1 DYNAMIC CRITERIA FOR THE EVALUATION OF THE BIOCHEMICAL EFFECTS OF AIR POLLUTANTS
E-0103 1957 ESTES P L

SINGLE CELLS 4710
1 DYNAMIC CRITERIA FOR THE EVALUATION OF THE BIOCHEMICAL EFFECTS OF AIR POLLUTANTS
E-0103 1957 ESTES P L

LEAVES 4760
2 SOME PHYSIOLOGICAL RESPONSES TO D L ABSCISIN DORMIN
E-0017 1967 EL ANTABLY H M M

WATER POLLUTION 4890
1 OCCURRENCE OF AIRBORNE LEAD IN SAN FRANCISCO BAY AND ITS RELATION TO ANIMAL DISEASE
C-0214 1970 COOPER E C

1 HORTICULTURE AND POLLUTION
D-0148 1970 DAY P E

1 DISPOSAL OF MERCURY WASTES FROM WATER LABORATORIES
D-0208 1971 DEAN P B

1 YEARLY CIRCULATION OF SULFUR IN NATURE
E-0077 1963 ERIKSSON E

1 MERCURY USES IN CANADA AND THEIR POSSIBLE HAZARDS AS SOURCES OF MERCURY CONTAMINATION
F-0093 1970 FIMREITE N

1 MERCURY CONTAMINATION OF CANADIAN FISH AND FISH EATING BIRDS
F-0107 1970 FIMREITE N

EPA REPORTS REPORTING SYSTEM

The EPA Reports Reporting System

Purpose and Scope

EPA provides the National Technical Information Service (Department of Commerce) with inhouse EPA reports. These reports are converted by NTIS to their system requirements and become a portion of the total NTIS Reports System. As a result, EPA receives all of the standard services provided to such NTIS customers. Because of the agency's desire to provide expanded reporting services in this area, an inhouse reporting system has been developed. This system utilizes NTIS report master files and provides title indexes, subject indexes, and abstract reports for distribution on microfiche. Selective bibliographies are also available.

Data Elements

The NTIS reports master file is converted inhouse to two separate tape files. The first file contains the complete report abstract. The second file contains all pertinent bibliographic information. The NTIS accession number is maintained on both files and provides the link between the two files. A complete file layout is provided in Document #34 (pages 72-73).

Status

All computer programs are operational. The second NTIS report master has been converted by EPA and the resultant reports on microfiche have been distributed domestically and internationally. The second master tape contained 3748 environmental reports.

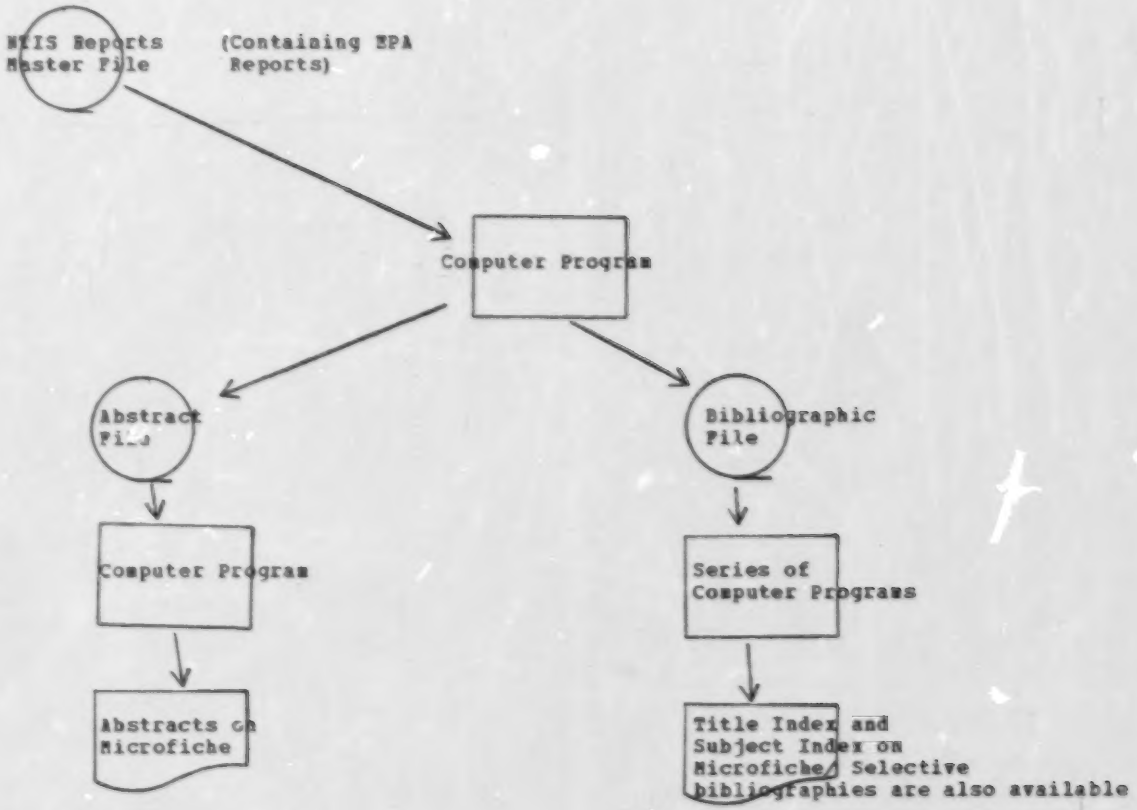
Plans

EPA will continue to provide this service as long as it remains practical. Further, additional computer programs will be developed providing a greater variety of outputs as needed.

Document #33 (page 71) is a system flow.
Document #35 (pages 74-75) is a sample of the title index.
Document #36 (pages 76-77) is a sample of the subject index.
Document #37 (pages 78-79) is a sample of the abstract listing.

These reports are generally available only on microfiche.

Document #33 System Flow
The EPA Reports Reporting System



Document #34 File Layout Specifications
The EPA Reports Reporting System

ABSTRACT FILE This is a variable length file with a maximum of 48 lines per abstract.

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LINE 2 OF ABSTRACT	121	99
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LINE 4 OF ABSTRACT	319	99
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LINE 48 OF ABSTRACT	4675	99

Document #34 Continued
The EPA Reports Reporting System

File Layout Specifications

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PERSONAL AUTHOR 4	394	25
PERSONAL AUTHOR 5	419	25
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SUBJECT 19	1289	40
SUBJECT 20	1329	40
ORIG REPORT NUMBER	1369	15
CONTRACT NUMBER (GOVT)	1384	20
CORP AUTH REPORT NUMBER	1404	15
CORP AUTH TASK NUMBER	1419	20
DATE OF PUBLICATION	1439	4

ATMOSPHERIC EMISSIONS FROM THERMAL-PROCESS PHOSPHORIC ACID MANUFACTURE. COOPERATIVE STUDY PROJECT.
PB-190 250 13B7A

ATMOSPHERIC EMISSIONS FROM WET-PROCESS PHOSPHORIC ACID MANUFACTURE.
PB-192 222 13B7A

AUTOMATIC BEAKER SAMPLE CHANGER. EVALUATION REPT. NO. 1.
PB-207 765 14B59A

AVAILABILITY OF LIMESTONES AND DOLOMITES. TASK 1. FINAL REPT..
PB-206 963 8G 64F

AVAILABILITY OF RESIDUAL FUEL OIL. FINAL REPT. JUN-DEC 70 ON TASK 2.
PB-198 817 21D13B

BACKGROUND INFORMATION FOR PROPOSED NEW-SOURCE PERFORMANCE STANDARDS: STEAM GENERATORS, INCINERATORS, PORTLAND CEMENT PLANTS, NITRIC ACID PLANTS, SULFURIC ACID PLANTS.
PB-202 459 13B68A

BACKGROUND INFORMATION-PROPOSED NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: ASBESTOS, BERYLLIUM, MERCURY.
PB-204 876 13B68A

BARGED OCEAN DISPOSAL OF WASTES. A REVIEW OF CURRENT PRACTICE AND METHODS OF EVALUATION.
PB-204 868 13B68C

BASIC SALINOGEN ION-EXCHANGE RESINS FOR SELECTIVE NITRATE REMOVAL FROM POTABLE AND EFFLUENT WATERS. WATER POLLUTION CONTROL RESEARCH SERIES.
PB-196 735 7C 13B

BASIC WASTE CHARACTERISTICS AT WINTER RECREATION AREAS. PROGRESS REPT..
PB-208 437 13B68D

BASIN MANAGEMENT FOR WATER REUSE.
PB-209 932 13B68D

BASIN MODEL: ECONOMIC SECTOR. WATER POLLUTION CONTROL RESEARCH SERIES.
PB-210 861 13B53E

BASIN MODEL: SOCIAL SECTOR. WATER POLLUTION CONTROL RESEARCH SERIES.
PB-210 860 13B53E

BASIS FOR ESTABLISHING GUIDES FOR SHORT-TERM EXPOSURES OF THE PUBLIC TO AIR POLLUTANTS.
PB-199 904 6T 13B

BATON ROUGE METROPOLITAN AREA AIR POLLUTANT EMISSION INVENTORY.
PB-205 255 13B68A

BEAUMONT - PORT ARTHUR METROPOLITAN AREA AIR POLLUTANT EMISSION INVENTORY.
PB-207 685 13B68A

BEHAVIOR OF CERTAIN RADIONUCLIDES RELEASED INTO FRESH-WATER ENVIRONMENTS. ANNUAL REPT. 1959-1960.
PB-189 346 18H6R

BENEFICIAL USE OF STORM WATER. A SYSTEM STUDY, DESIGN, AND EVALUATION OF THE LOCAL STORAGE, TREATMENT, AND REUSE OF STORM WATER. FINAL REPT.
PB-195 160 13B60I

BENEFICIAL USES OF WASTE HEAT - AN EVALUATION,
PB-201 724 13B68D

BENEFITS OF WATER QUALITY ENHANCEMENT.
PB-207 358 13B68D

BERYLLIUM AND AIR POLLUTION: AN ANNOTATED BIBLIOGRAPHY.
PB-198 067 13B6J

BIBLIOGRAPHY OF PUBLISHED LITERATURE ON ASPECTS OF PHYSICAL QUALITY OF HOT ROLLED STEEL STRIP (1960 TO 1970),
PB-199 295 13H69K

BIBLIOGRAPHY. VOLUME III. FABRIC FILTER SYSTEMS STUDY.
PB-200 650 13K7A

BILLINGS, MONTANA AREA AIR POLLUTANT EMISSION INVENTORY,
PB-207 684 13B68A

BIO-REGENERATED ACTIVATED CARBON TREATMENT OF TEXTILE DYE WASTE WATER. WATER POLLUTION CONTROL RESEARCH SERIES,
PB-203 599 13B68D

BIOCHEMISTRY OF ANAEROBIC DIGESTION, FINAL REPT.,
PB-198 655 13B6A

BIOLOGIC EFFECTS OF ATMOSPHERIC POLLUTANTS. FLUORIDES.
PB-207 535 6F 6T

BIOLOGICAL ASPECTS OF LASER RADIATION. A REVIEW OF HAZARDS,
PB-184 003 6E 6R

BIOLOGICAL ASPECTS OF ULTRAVIOLET RADIATION. A REVIEW OF HAZARDS. TECHNICAL REPT.,
PB-194 611 6R 57V

BIOLOGICAL EFFECTS AND HEALTH IMPLICATIONS OF MICROWAVE RADIATION,
PB-193 898 6R 57V

BIOLOGICAL EFFECTS OF COPPER AND ARSENIC POLLUTION. FINAL REPT.,
PB-201 648 6T 68D

BIOLOGICAL EFFECTS OF EFFLUENT FROM A DESALINATION PLANT AT KEY WEST, FLORIDA. WATER POLLUTION CONTROL SERIES,
PB-195 677 13B6F

BIOLOGICAL EFFECTS OF OIL POLLUTION-BIBLIOGRAPHY. A COLLECTION OF REFERENCES CONCERNING THE EFFECTS OF OIL ON BI[illegible] SYSTEMS. WATER POLLUTION CONTROL RESEARCH SERIES,
PB-188 206 6F 13B

ACCIDENTS		
PB-197 596	13B6T	CONTROL OF SPILLAGE OF HAZARDOUS POLLUTING SUBSTANCES. WATER POLLUTION CONTROL RESEARCH SERIES.
ACCURACY		
PB-174 452	18D	STANDARDS OF PERFORMANCE FOR FILM BADGE SERVICES.
PB-188 493	13B8H	USE OF MATHEMATICAL MODELS IN WATER QUALITY CONTROL STUDIES.
PB-188 494	13B8H	USE OF MATHEMATICAL MODELS IN WATER QUALITY CONTROL STUDIES.
PB-190 870	6L 6R	REPORT OF TESTS MADE ON THE WESTINGHOUSE PANORAMIX (TRADE MARK) X-RAY MACHINE.
PB-191 395	14B73D	COMPARISON OF MICROWAVE DETECTION INSTRUMENTS.
PB-192 322	6R 57V	EFFECT OF INSTRUMENT AVERAGING TIME ON MICROWAVE POWER DENSITY MEASUREMENTS.
PB-209 267	7B 13B	IMPROVED CHEMICAL METHODS FOR SAMPLING AND ANALYSIS OF GASEOUS POLLUTANTS FROM THE COMBUSTION OF FOSSIL FUELS. VOLUME I. SULFUR OXIDES. FINAL REPT..
ACETATES		
PB-198 222	11K71Q	DEVELOPMENT OF PHOSPHATE-FREE HOME LAUNDRY DETERGENTS.
PB-198 222	11K71Q	DEVELOPMENT OF PHOSPHATE-FREE HOME LAUNDRY DETERGENTS.
PB-206 237	7A 13B	CONTROLLING FACTORS IN METHANE FERMENTATION. FINAL REPT. 1 SEP 68-31 AUG 69.
PB-206 237	7A 13B	CONTROLLING FACTORS IN METHANE FERMENTATION. FINAL REPT. 1 SEP 68-31 AUG 69.
ACETIC ACID		
PB-208 433	8H 13B	INVESTIGATIONS CONCERNING PROBABLE IMPACT OF NITRILOTRIACETIC ACID ON GROUND WATER. WATER POLLUTION CONTROL RESEARCH SERIES.
PB-209 478	13B6T	AICE SURVEY OF USSR AIR POLLUTION LITERATURE. VOLUME XI. A SECOND COMPILATION OF TECHNICAL REPORTS ON THE BIOLOGICAL EFFECTS AND THE PUBLIC HEALTH ASPECTS OF ATMOSPHERIC POLLUTANTS.
ACETOPHENONES		
PB-201 459	13B6E	AICE SURVEY OF USSR AIR POLLUTION LITERATURE. VOLUME VIII. A COMPILATION OF TECHNICAL REPORTS ON THE BIOLOGICAL EFFECTS AND THE PUBLIC HEALTH ASPECTS OF ATMOSPHERIC POLLUTANTS.

ACETYLCHOLINESTERASE		
PB-191 812	7D 13B	FLUORESCENT PROBES IN THE DEVELOPMENT OF NEW ANALYTICAL METHODS FOR DETECTION OF WATER POLLUTION. ANNUAL REPT. 1 JUN 69-31 MAY 70.
PB-191 812	7D 13B	FLUORESCENT PROBES IN THE DEVELOPMENT OF NEW ANALYTICAL METHODS FOR DETECTION OF WATER POLLUTION. ANNUAL REPT. 1 JUN 69-31 MAY 70.
ACETYLENE		
PB-210 707	8H 13B	NUTRIENT SOURCES FOR ALGAE AND THEIR CONTROL. WATER POLLUTION CONTROL RESEARCH SERIES.
ACIDIFICATION		
PB-198 231	13B6H	WASTE REDUCTION IN FOOD CANNING OPERATIONS: A STUDY OF FOUR METHODS TO IMPROVE THE QUALITY OR REDUCE THE QUANTITY OF EFFLUENT DISCHARGED BY A FRUIT PROCESSING PLANT. WATER POLLUTION CONTROL RESEARCH SERIES.
PB-198 231	13B6H	WASTE REDUCTION IN FOOD CANNING OPERATIONS: A STUDY OF FOUR METHODS TO IMPROVE THE QUALITY OR REDUCE THE QUANTITY OF EFFLUENT DISCHARGED BY A FRUIT PROCESSING PLANT. WATER POLLUTION CONTROL RESEARCH SERIES.
ACIDITY		
PB-196 113	6M 13B	MICROBIOLOGICAL FACTOR IN ACID MINE DRAINAGE FORMATION. II. FURTHER OBSERVATIONS FROM A PILOT PLANT STUDY. WATER POLLUTION CONTROL RESEARCH SERIES.
PB-196 113	6M 13B	MICROBIOLOGICAL FACTOR IN ACID MINE DRAINAGE FORMATION. II. FURTHER OBSERVATIONS FROM A PILOT PLANT STUDY. WATER POLLUTION CONTROL RESEARCH SERIES.
PB-206 194	13B8I	CONTROL OF MINE DRAINAGE FROM COAL MINE MINERAL WASTES. PHASE I. HYDROLOGY AND RELATED EXPERIMENTS.
PB-206 194	13B8I	CONTROL OF MINE DRAINAGE FROM COAL MINE MINERAL WASTES. PHASE I. HYDROLOGY AND RELATED EXPERIMENTS.
PB-208 817	8I 13B	MINE SPOIL POTENTIALS FOR WATER QUALITY AND CONTROLLED EROSION.
ACIDS		
PB-189 233	8I 13B	OXYGENATION OF FERROUS IRON: THE RATE-DETERMINING STEP IN THE FORMATION OF ACIDIC MINE DRAINAGE. FINAL PROGRESS REPT. 1 APR 66-31 DEC 68.
PB-189 233	8I 13B	OXYGENATION OF FERROUS IRON: THE RATE-DETERMINING STEP IN THE FORMATION OF ACIDIC MINE DRAINAGE. FINAL PROGRESS REPT. 1 APR 66-31 DEC 68.

PB-182 558 13L6R THE REPORT DETAILS RADIATION PROTECTION RECOMMENDATIONS FOR X-RAY DIFFRACTION AND SPECTROGRAPHIC EQUIPMENT, INCLUDING GUIDELINES FOR ADMINISTRATIVE RESPONSIBILITIES, OPERATING PROCEDURES, PERSONNEL MONITORING, AREA MONITORING, AND SAFETY ENGINEERING. THE REPORT IS DIRECTED TO OPERATORS, ADMINISTRATORS, GOVERMENTAL HEALTH AGENCIES, AND MANUFACTURERS. (AUTHOR)

PB-182 717 6R 5A

THE REPORT DISCUSSES THE EXTENT OF THE USE OF RADIUM IN PRODUCTS AVAILABLE TO THE PUBLIC. IT IS AN ATTEMPT TO CONSOLIDATE INFORMATION PERTAINING TO THESE PRODUCTS SO THAT THEIR POTENTIAL HEALTH IMPLICATIONS CAN BE PUT INTO PERSPECTIVE. A GREATER AWARENESS IS NEEDED TO PROTECT THE PUBLIC FROM POTENTIAL EXPOSURE TO CONSUMER RADIUM. THE EXTENT AND HAZARDS OF THE USE OF THESE PRODUCTS SHOULD BE UNDERSTOOD BY ALL PUBLIC HEALTH AGENCIES. (AUTHOR)

INTERNATIONAL ENVIRONMENTAL REPORTS SYSTEM

The International Environmental Reports System
(Developed for the Office of International Activities)

Purpose and Scope

This system contains summaries of foreign government environmental reports received by EPA through document exchange programs with foreign countries. The resultant computer generated reports serve to alert the agency to major environmental developments around the world. The system produces reports by catagory (legal, planning and management, scientific and technical, and socio-economic), by country, and by subject (air, water, pesticides, radiation, solid waste, noise, and general).

Data Elements

All of the data is contained in a single file. The data elements include publisher ID number; document title; author; English translation; continent; country; language; date of publication; number of pages; catagory; document location; subjects; remarks; and the abstract. Document #19 (page 82) is a sample file layout.

Status

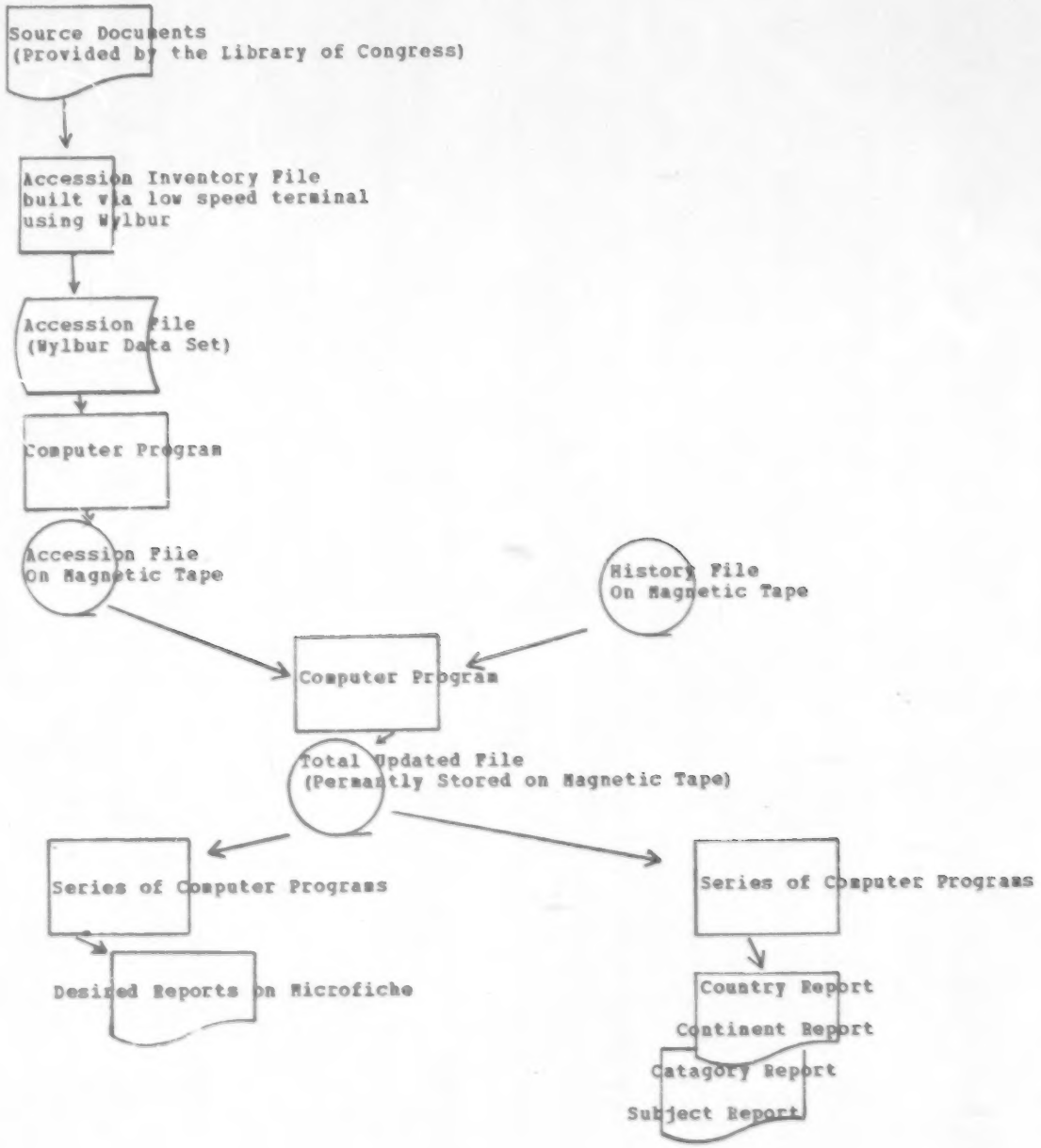
The annotated bibliography containing reports of legal, legislative, and regulatory aspects of environmental quality has been prepared in machine readable form. The computer outputs have been generated and distributed. They are available in hard copy as well as on microfiche.

Plans

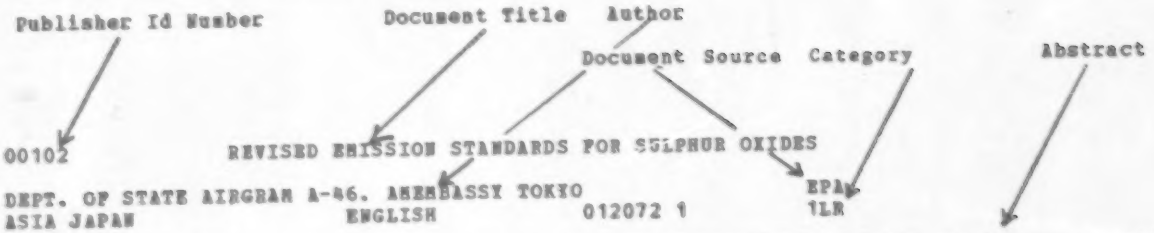
The necessary procedures for a continuous updating of the file have been finalized. The system will be expanded to meet the total needs of the functional area as they become defined.

Document #38 (page 81) is a system flow.
Document #40 (pages 83-84) is a sample of the country report.
Document #41 (pages 85-86) is a sample of the subject report.
Document #42 (pages 97-88) is a sample of the catagory report.
Document #43 (pages 89-90) is a sample of the continent report.

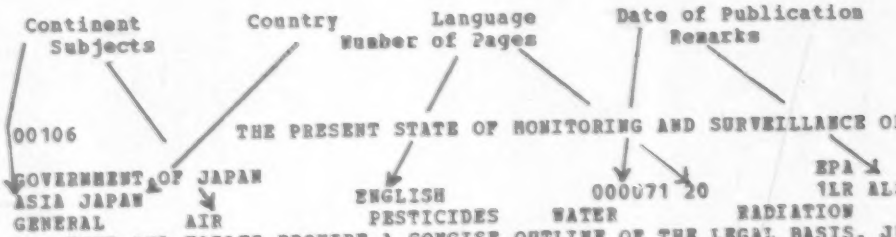
Document #38 System Flow
The International Environmental Reports System



Document #39 Sample File Layout
The International Environmental Reports System



REVISED, MORE STRINGENT STANDARDS FOR SULPHUR DIOXIDES TOOK EFFECT ON JANUARY 5, 1972, REFLECTING THE JAPANESE GOVERNMENT'S DETERMINED EFFORTS SINCE 1969 TO REDUCE THIS MAJOR SOURCE OF AIR POLLUTION. A RECENT SURVEY BY THE GOVERNMENT'S ENVIRONMENTAL PROTECTION AGENCY REVEALED THAT SULPHUR DIOXIDE CONTAMINATION DECREASED DURING FY 1971, ALTHOUGH OTHER AIR POLLUTANTS INCREASED, NOTABLY NITROGEN OXIDES.



TEXT AND TABLES PROVIDE A CONCISE OUTLINE OF THE LEGAL BASIS, JURISDICTION, MONITORING SYSTEMS, AND METHODOLOGY FOR MEASURING POLLUTANTS PRESENT IN AIR, WATER, OCEAN, SOIL, INCLUDING RESIDUE PESTICIDES IN FOODS. IN MONITORING RADIOACTIVE FALLOUT, VARIOUS COUNTERMEASURES HAVE BEEN FORMULATED FOR AN EMERGENCY SITUATION IN WHICH POLLUTION EXCEEDS SAFE LIMITS, BUT TO DATE NO SUCH INCIDENT HAS OCCURRED.

04-13-73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
COUNTRY/CATEGORY REPORT
PROG: OIA.COUNTRY

COUNTRY:

SWEDEN

LR PUBLIC HEALTH SERVICE
STOCKHOLM CENTRAL BOARD OF ADMINISTRATION INFO. COMMITTEE EPA
ENGLISH 72 PGS 28 ID# 00111
NOISE

SEVERAL ANTINOISE MEASURES HAVE BEEN INITIATED BY STOCKHOLM'S PUBLIC HEALTH COMMITTEE. JET AIRCRAFT NOISE WAS REDUCED BY DESIGNATING NEARBY BROMMA AIRPORT EXCLUSIVELY FOR PISTON-ENGINED AIRCRAFT WHILE DIVERTING JET TRAFFIC TO ARLANDA AIRPORT 40 MILES AWAY. THE REQUIRED WARMUP OF PISTON ENGINES BEFORE TAKEOFF HAS BEEN HELD TO A MINIMUM SINCE SWEDEN'S DOMESTIC AIRLINES WERE URGED TO FIT THEIR AIRCRAFT WITH ENGINE HEATERS. A RECENT ORDINANCE PROHIBITS IDLING OF MOTOR VEHICLE ENGINES OUTDOORS FOR LONGER THAN THREE MINUTES EXCEPT DURING TRAFFIC DELAY. THE SOUND LEVEL FROM A REFUSE COLLECTION TRUCK MUST NOT EXCEED 70 DB (DECIBLES) MEASURED THREE METERS AWAY, AND COMPRESSORS ON CONSTRUCTION SITES MUST NOT EMIT NOISE EXCEEDING 70 DB AT A DISTANCE OF SEVEN METERS.

LR ENVIRONMENT PLANNING AND CONSERVATION IN SWEDEN
SWEDISH INFORMATION SERVICE EPA
ENGLISH 6/00/72 PGS 4 ID# 00118
WATER

RECENT SWEDISH ENVIRONMENTAL LEGISLATION IS HIGHLIGHTED IN THIS PUBLIC INFORMATION BROCHURE. SINCE JANUARY 1, 1972, ALL DUMPING FROM SWEDISH SHIPS AND AIRCRAFT IS PROHIBITED IN TERRITORIAL WATERS AND THE HIGH SEAS. THE LAW ALSO BANS DUMPING BY FOREIGN VESSELS IN SWEDISH TERRITORIAL WATERS, AND IT IS ILLEGAL FOR THEM TO EXPORT WASTES FROM SWEDEN FOR THE PURPOSE OF DUMPING IN THE HIGH SEAS. ANOTHER LAW, EFFECTIVE JUNE 1, 1972, STIPULATES THAT PCB'S AND MATERIALS CONTAINING PCB'S MAY NOT BE MANUFACTURED, SOLD, OR USED WITHOUT LICENSE.

Document #40

04-13-73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
COUNTRY/CATEGORY REPORT
PROG: OIA.COUNTRY

COUNTRY:

U.S.S.R.

LR

PREVENTION OF OIL POLLUTION IN OCEANS
NUNUPAROV S.M.
RUSSIAN 71 PGS 164 EPA ID# 00168
WATER

THE BOOK DISCUSSES REASONS FOR OCEAN POLLUTION AS A RESULT OF TRANSPORT OPERATIONS AND WAYS TO DECREASE THE HARMFUL EFFECTS OF THIS POLLUTION ON NATURE AND MAN. A SURVEY IS GIVEN OF BASIC INTERNATIONAL AND USSR LEGISLATION FOR PREVENTION OF OIL POLLUTION.

PRACTICAL METHODS APPLIED IN THE USSR FOR DECREASING THE PROBABILITY OF ACCIDENTAL SPILLAGE OF OIL AND FOR PROHIBITING THE DUMPING OF OIL-POLLUTED WATER INTO THE OCEAN ARE PRESENTED. THERE ARE DESCRIPTIONS OF THE MOST EFFECTIVE ARRANGEMENTS AND DEVICES FOR LOCALIZING OIL SPILLS, THEIR REMOVAL, CONSTRUCTIONS FOR UNLOADING TANKERS, AND PURIFICATION.

Document #41

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
SUBJECT REPORT
PROG: OIA.SUBJECT

GENERAL
EUR
SWEDEN

ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES
NAT. ENVIR. PROT. BOARD. EPA
LR 4/00/72 PGS 85 ID# 00129
INFO FOR U.N. CONF. ON ENVIRONMEN
AIR NOISE WATER

THE FIRST PART OF THIS BOOKLET REVIEWS THE SCOPE OF THE ENVIRONMENT PROTECTION ACT OF 1969, A LEGISLATIVE LANDMARK IN SWEDEN'S ANTIPOLLUTION PROGRAM. IT SETS FORTH CRITERIA FOR CONTROL OF AIR AND WATER POLLUTION, NOISE,AND OTHER NUISANCES, AND CITES CASE DECISIONS OF EXAMINING BOARDS TO SHOW THE LAW'S APPLICATION, COMPENSATION GRANTED,OR PENALTIES IMPOSED. UNDER THE ACT, PERSONS OR FIRMS PLANNING TO ENGAGE IN SPECIFIED INDUSTRIAL ACTIVITIES ARE REQUIRED TO APPLY TO A FRANCHISE BOARD FOR A PERMIT TO OPERATE. THIS BOARD MUST BE FULLY APPRAISED OF POSSIBLE POLLUTING EFFECTS OF THE ENTERPRISE, AND WHAT CONTROL DEVICES ARE TO BE USED TO COUNTERACT THE POLLUTION. THE SECOND PART CONTAINS A BRIEF COMMENTARY ON THE MARINE DUMPING PROHIBITION ACT, WHICH CAME INTO FORCE ON JANUARY 1, 1972.

NOISE
AFR
SOUTH AFRICA

REPORT ON POLLUTION
THE PLANNING ADVISORY COUNCIL OF THE PRIME MINISTER EPA
LR 3/00/72 PGS 15 ID# 00253
ALSO PM
*GENERAL AIR RADIATION WATER

ASIA
JAPAN

TOKYO FIGHTS POLLUTION AN URGENT APPEAL FOR REFORM
TOKYO METRO. GOV. BUREAU OF GEN. AFFAIRS EPA
LR 3/00/71 PGS 267 ID# 00119
ALSO PM
*GENERAL AIR SOLID WASTE WATER

Document #41

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
SUBJECT REPORT
PROG: OIA.SUBJECT

NOISE
EUR

NETHERLANDS — ENVIRONMENTAL HEALTH IN THE NETHERLANDS — EPA
MINISTRY OF PUBLIC HEALTH AND ENVIRONMENTAL HYGIENE
LR — 3/00/72 PGS 60 — ID# 00239
•GENERAL — WATER — AIR — SOLID WASTE — RADIATION

SWEDEN — ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES — EPA
NAT. ENVIR. PROT. BOARD.
LR — 4/00/72 PGS 85 — ID# 00129
INFO FOR U.N. CONF. ON ENVIRONMEN
•GENERAL — AIR — WATER

SWEDEN — PUBLIC HEALTH SERVICE — EPA
STOCKHOLM CENTRAL BOARD OF ADMINISTRATION INFO. COMMITTEE
LR — 72 PGS 28 — ID# 00111

SEVERAL ANTINOISE MEASURES HAVE BEEN INITIATED BY STOCKHOLM'S PUBLIC HEALTH COMMITTEE. JET AIRCRAFT NOISE WAS REDUCED BY DESIGNATING NEARBY BROMMA AIRPORT EXCLUSIVELY FOR PISTON-ENGINED AIRCRAFT WHILE DIVERTING JET TRAFFIC TO ARLANDA AIRPORT 40 MILES AWAY. THE REQUIRED WARMUP OF PISTON ENGINES BEFORE TAKEOFF HAS BEEN HELD TO A MINIMUM SINCE SWEDEN'S DOMESTIC AIRLINES WERE URGED TO FIT THEIR AIRCRAFT WITH ENGINE HEATERS. A RECENT ORDINANCE PROHIBITS IDLING OF MOTOR VEHICLE ENGINES OUTDOORS FOR LONGER THAN THREE MINUTES EXCEPT DURING TRAFFIC DELAY. THE SOUND LEVEL FROM A REFUSE COLLECTION TRUCK MUST NOT EXCEED 70 DB (DECIBLES) MEASURED THREE METERS AWAY, AND COMPRESSORS ON CONSTRUCTION SITES MUST NOT EMIT NOISE EXCEEDING 70 DB AT A DISTANCE OF SEVEN METERS.

Document #42

04-13-73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
CATEGORY/COUNTRY REPORT
PROG: OIA.CATG

CATEGORY:

LR
EUR
ITALY

FACTS ON FILE
VOL. 32, NO. 1645, 5-3 5/03/72 PGS 35583 LOC ID# 00138
ENGLISH
GENERAL WATER

AN ITALIAN INDUSTRIALIST, ALBERTO REDAELLI, WAS ARRESTED AND JAILED IN MILAN ON MAY 3 AFTER FAILING TO COMPLY WITH AN ORDER TO INSTALL ANTI-POLLUTION DEVICES IN HIS STEEL PLANT.

NETHERLANDS

ENVIRONMENTAL HEALTH IN THE NETHERLANDS
MINISTRY OF PUBLIC HEALTH AND ENVIRONMENTAL HYGIENE EPA
3/00/72 PGS 60 ID# 00239
ENGLISH
GENERAL WATER AIR NOISE SOLID WASTE RADIATION

AFTER A SURVEY OF THE GENERAL ENVIRONMENT OF THE NETHERLANDS, THE BOOK TURNS TO SPECIFIC PROBLEMS. THE FIRST OF THESE IS WATER: WATER SUPPLY, USE OF RESOURCES, QUALITY CONTROL, AND WATER POLLUTION. UNDER THE LATTER, IT DESCRIBES SEWAGE DISPOSAL IN THE MAJOR CITIES, NATIONAL STANDARDS AND GOVERNMENTAL ORGANIZATIONS, AND INTERNATIONAL PROBLEMS ARISING IN CONNECTION WITH THE RHINE. THE SECOND POINT IS AIR: IN A SIMILAR FRAMEWORK SUCH ORGANIZATIONS AS THE AIR POLLUTION COUNCIL AND LEGAL MEASURES SUCH AS THE AIR POLLUTION ACT OF 1970 ARE DISCUSSED. RADIATION POLLUTION IS PRESENTED BRIEFLY IN TERMS OF RESEARCH ORGANIZATIONS AND LEGAL MEASURES, AS ARE SOLID WASTES. FOUNDATIONS AND LEGAL MEASURES AGAINST NOISE ARE ALSO GIVEN, IN PARTICULAR THE PUBLIC NUISANCE ACT WHICH AFFECTS ALL THE ABOVE PROBLEMS. THE BOOK THEN PROCEEDS TO DISCUSS PROBLEMS ARISING FROM RECREATION AND HOUSING AND THE POSSIBILITIES OF ANTI-POLLUTION TRAINING AND STUDY.

Document #42

04-13-73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
CATEGORY/COUNTRY REPORT
PROG: OIA.CATG

CATEGORY:

LR

EUR
SWEDEN

ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES
NAT. ENVIR. PROT. BOARD.
ENGLISH 4/00/72 PGS 85 EPA ID# 00129
INFO FOR U.N. CONF. ON ENVIRONMEN
GENERAL AIR NOISE WATER

THE FIRST PART OF THIS BOOKLET REVIEWS THE SCOPE OF THE ENVIRONMENT PROTECTION ACT OF 1969, A LEGISLATIVE LANDMARK IN SWEDEN'S ANTIPOLLUTION PROGRAM. IT SETS FORTH CRITERIA FOR CONTROL OF AIR AND WATER POLLUTION, NOISE, AND OTHER NUISANCES, AND CITES CASE DECISIONS OF EXAMINING BOARDS TO SHOW THE LAW'S APPLICATION, COMPENSATION GRANTED, OR PENALTIES IMPOSED. UNDER THE ACT, PERSONS OR FIRMS PLANNING TO ENGAGE IN SPECIFIED INDUSTRIAL ACTIVITIES ARE REQUIRED TO APPLY TO A FRANCHISE BOARD FOR A PERMIT TO OPERATE. THIS BOARD MUST BE FULLY APPRAISED OF POSSIBLE POLLUTING EFFECTS OF THE ENTERPRISE, AND WHAT CONTROL DEVICES ARE TO BE USED TO COUNTERACT THE POLLUTION. THE SECOND PART CONTAINS A BRIEF COMMENTARY ON THE MARINE DUMPING PROHIBITION ACT, WHICH CAME INTO FORCE ON JANUARY 1, 1972.

SWEDEN

ENVIRONMENT PLANNING AND CONSERVATION IN SWEDEN
SWEDISH INFORMATION SERVICE
ENGLISH 6/00/72 PGS 4 EPA ID# 00118
WATER

RECENT SWEDISH ENVIRONMENTAL LEGISLATION IS HIGHLIGHTED IN THIS PUBLIC INFORMATION BROCHURE. SINCE JANUARY 1, 1972, ALL DUMPING FROM SWEDISH SHIPS AND AIRCRAFT IS PROHIBITED IN TERRITORIAL WATERS AND THE HIGH SEAS. THE LAW ALSO BANS DUMPING BY FOREIGN VESSELS IN SWEDISH TERRITORIAL WATERS, AND IT IS ILLEGAL FOR THEM TO EXPORT WASTES FROM SWEDEN FOR THE PURPOSE OF DUMPING IN THE HIGH SEAS. ANOTHER LAW, EFFECTIVE JUNE 1, 1972, STIPULATES THAT PCB'S AND MATERIALS CONTAINING PCB'S MAY NOT BE MANUFACTURED, SOLD, OR USED WITHOUT LICENSE.

Document #43

04-13-73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
CONTINENT/COUNTRY/CATEGORY REPORT
PROG: OIA.CONTINENT

CONTINENT:

EUR
SWEDEN
LR

ENVIRONMENT PROTECTION ACT MARINE DUMPING ACT WITH COMMENTARIES
NAT. ENVIR. PROT. BOARD. EPA
ENGLISH 4/00/72 PGS 85 ID# 00129
INFO FOR U.N. CONF. ON ENVIRONMEN
GENERAL AIR NOISE WATER

THE FIRST PART OF THIS BOOKLET REVIEWS THE SCOPE OF THE ENVIRONMENT PROTECTION ACT OF 1969, A LEGISLATIVE LANDMARK IN SWEDEN'S ANTIPOLLUTION PROGRAM. IT SETS FORTH CRITERIA FOR CONTROL OF AIR AND WATER POLLUTION, NOISE, AND OTHER NUISANCES, AND CITES CASE DECISIONS OF EXAMINING BOARDS TO SHOW THE LAW'S APPLICATION, COMPENSATION GRANTED, OR PENALTIES IMPOSED. UNDER THE ACT, PERSONS OR FIRMS PLANNING TO ENGAGE IN SPECIFIED INDUSTRIAL ACTIVITIES ARE REQUIRED TO APPLY TO A FRANCHISE BOARD FOR A PERMIT TO OPERATE. THIS BOARD MUST BE FULLY APPRAISED OF POSSIBLE POLLUTING EFFECTS OF THE ENTERPRISE, AND WHAT CONTROL DEVICES ARE TO BE USED TO COUNTERACT THE POLLUTION. THE SECOND PART CONTAINS A BRIEF COMMENTARY ON THE MARINE DUMPING PROHIBITION ACT, WHICH CAME INTO FORCE ON JANUARY 1, 1972.

SWEDEN
LR

ENVIRONMENT PLANNING AND CONSERVATION IN SWEDEN
SWEDISH INFORMATION SERVIC EPA
ENGLISH 6/00/72 PGS 4 ID# 00118
WATER

RECENT SWEDISH ENVIRONMENTAL LEGISLATION IS HIGHLIGHTED IN THIS PUBLIC INFORMATION BROCHURE. SINCE JANUARY 1, 1972, ALL DUMPING FROM SWEDISH SHIPS AND AIRCRAFT IS PROHIBITED IN TERRITORIAL WATERS AND THE HIGH SEAS. THE LAW ALSO BANS DUMPING BY FOREIGN VESSELS IN SWEDISH TERRITORIAL WATERS, AND IT IS ILLEGAL FOR THEM TO EXPORT WASTES FROM SWEDEN FOR THE PURPOSE OF DUMPING IN THE HIGH SEAS. ANOTHER LAW, EFFECTIVE JUNE 1, 1972, STIPULATES THAT PCB'S AND MATERIALS CONTAINING PCB'S MAY NOT BE MANUFACTURED, SOLD, OR USED WITHOUT LICENSE.

Document #43

04-13-73
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF INTERNATIONAL ACTIVITIES
CONTINENT/COUNTRY/CATEGORY REPORT
PROG: OIA.CONTINENT

CONTINENT:

EUR
SWEDEN
LR

PUBLIC HEALTH SERVICE
STOCKHOLM CENTRAL BOARD OF ADMINISTRATION INFO. COMMITTEE EPA
ENGLISH 72 PGS 28 ID# 00111
NOISE

SEVERAL ANTINOISE MEASURES HAVE BEEN INITIATED BY STOCKHOLM'S PUBLIC HEALTH COMMITTEE. JET AIRCRAFT NOISE WAS REDUCED BY DESIGNATING NEARBY BROMMA AIRPORT EXCLUSIVELY FOR PISTON-ENGINED AIRCRAFT WHILE DIVERTING JET TRAFFIC TO ARLANDA AIRPORT 40 MILES AWAY. THE REQUIRED WARMUP OF PISTON ENGINES BEFORE TAKEOFF HAS BEEN HELD TO A MINIMUM SINCE SWEDEN'S DOMESTIC AIRLINES WERE URGED TO FIT THEIR AIRCRAFT WITH ENGINE HEATERS. A RECENT ORDINANCE PROHIBITS IDLING OF MOTOR VEHICLE ENGINES OUTDOORS FOR LONGER THAN THREE MINUTES EXCEPT DURING TRAFFIC DELAY. THE SOUND LEVEL FROM A REFUSE COLLECTION TRUCK MUST NOT EXCEED 70 DB (DECIBLES) MEASURED THREE METERS AWAY, AND COMPRESSORS ON CONSTRUCTION SITES MUST NOT EMIT NOISE EXCEEDING 70 DB AT A DISTANCE OF SEVEN METERS.

U.S.S.R.
LR

PREVENTION OF OIL POLLUTION IN OCEANS
NUNUPAROV S.M. EPA
RUSSIAN 71 PGS 164 ID# 00168
WATER

THE BOOK DISCUSSES REASONS FOR OCEAN POLLUTION AS A RESULT OF TRANSPORT OPERATIONS AND WAYS TO DECREASE THE HARMFUL EFFECTS OF THIS POLLUTION ON NATURE AND MAN. A SURVEY IS GIVEN OF BASIC INTERNATIONAL AND USSR LEGISLATION FOR PREVENTION OF OIL POLLUTION.

PRACTICAL METHODS APPLIED IN THE USSR FOR DECREASING THE PROBABILITY OF ACCIDENTAL SPILLAGE OF OIL AND FOR PROHIBITING THE DUMPING OF OIL-POLLUTED WATER INTO THE OCEAN ARE PRESENTED. THERE ARE DESCRIPTIONS OF THE MOST EFFECTIVE ARRANGEMENTS AND DEVICES FOR LOCALIZING OIL SPILLS, THEIR REMOVAL, CONSTRUCTIONS FOR UNLOADING TANKERS, AND PURIFICATION.

DOCUMENT CONTROL SYSTEM

The Document Control System

Purpose and Scope

This system gathers data on documents not covered by any other library system. A major component of this system is the vast environmental state and local report collection held by the EPA library network. From the resulting master file, various bibliographies can be generated by document title, shelf list number, primary author, corporate author, subject area, and geographic area.

Data Elements

All of the bibliographic information is contained in a single file format. Data elements include shelf number (which identifies library and document shelf location); document title; up to three authors; date of publication; contract number; two corporate sources; up to five subjects (with subject class numbers); city area; state area; NTIS number; original report number; sponsoring report number; and a remarks field. Document #45 (page 94) is a sample file format.

Status

All of the computer programs are operational. Currently, the system has been made available to three EPA libraries. These libraries are now developing the document data base. Because of the large number of reports in each location, the library will be responsible for developing its data base meeting the same exact system specifications.

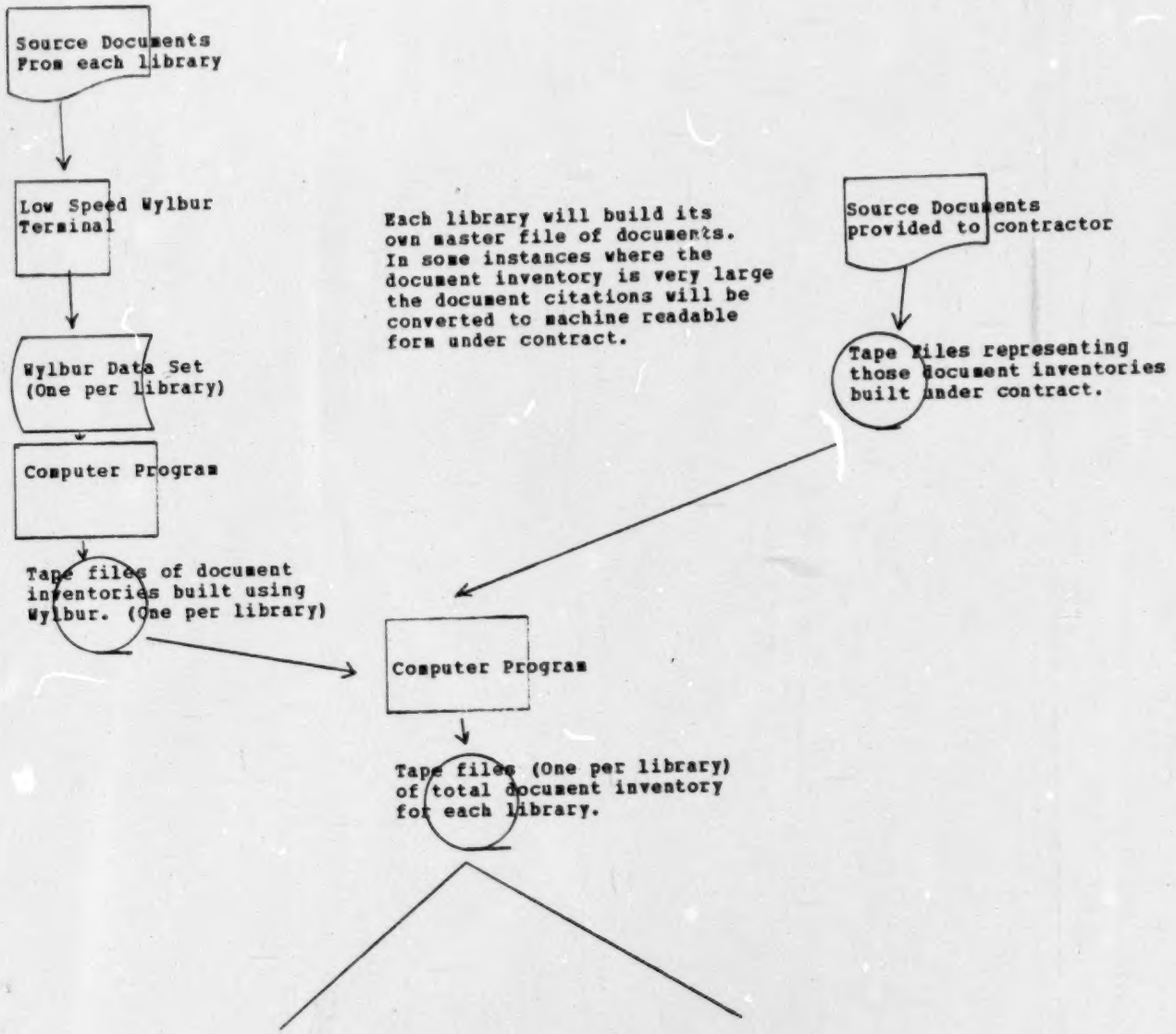
Plans

As libraries complete their data bases, they will have access to all of the report outputs. As the data base grows, certain combined outputs will be generated. As time allows, all other EPA librarians will be instructed on the system allowing each to build an appropriate master file.

Document #44 (pages 92-93) is a system flow.
Document #46 (pages 95-96) is a sample of the document title report.
Document #47 (pages 97-98) is a sample of the primary author report.
Document #48 (pages 99-100) is a sample of the primary corporate author report.
Document #49 (pages 101-102) is a sample of the subject report.
Document #50 (pages 103-104) is a sample of the geographic area report.
Document #51 (page 105) is a sample of the shelf list report.

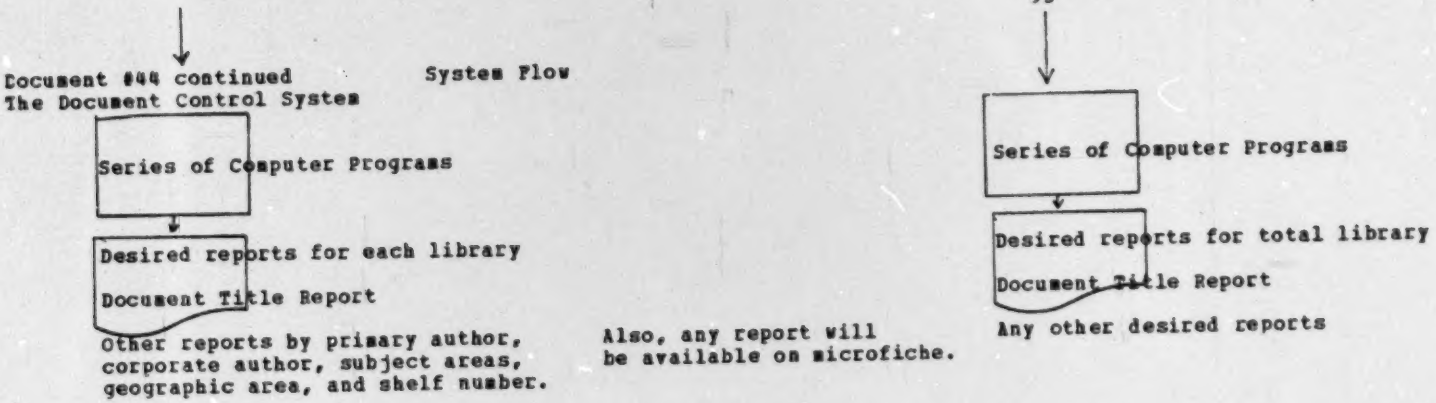
Document #44
The Document Control System

System Flow


Source Documents From each library
Low Speed Wylbur Terminal
Wylbur Data Set (One per library)
Computer Program
Tape files of document inventories built using Wylbur. (One per library)
Each library will build its own master file of documents. In some instances where the document inventory is very large the document citations will be converted to machine readable form under contract.
Source Documents provided to contractor
Tape files representing those document inventories built under contract.
Computer Program
Tape files (One per library) of total document inventory for each library.

Document #44 continued
The Document Control System

System Flow


Series of Computer Programs
Desired reports for each library
Document Title Report
Other reports by primary author, corporate author, subject areas, geographic area, and shelf number.
Also, any report will be available on microfiche.
Series of Computer Programs
Desired reports for total library
Document Title Report
Any other desired reports

Document #45 Sample File Layout

Shelf Number | Document ID Number | Title | Author(s) | Publication Date | City Area | State

Corporate Source(s) | Subject Area(s) | Subject Class(s) | Contract Number (if applicable)

03B000001 SEVENTH TECHNICAL PROGRESS REPORT

FAITH W L RENZETTI N A 0361
AIR POLLUTION FOUNDATION

ATMOSPHERIC PHOTOCHEMISTRY MOTOR VEHICLE EMISSIONS INSTRUMENTATION 01 SAN MARINO CA
33

03B000002 THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III

SHEARLS E A CHIA S N HARGIS JR W J 0273
VIRGINIA INSTITUTE OF MARINE SCIENCE

THERMAL EFFECTS JAMES RIVER NUCLEAR POWER PLANT
INSTRUMENT CALIBRATION INFRA-RED SCANNING 06 CLOUCESTER POINT VA
33 ORO-4067-4

NTIS Report Number (if applicable) | Original Report Number (if applicable) | Sponsoring Report Number (if applicable) | Remarks Field (if applicable)

Document #46

01-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.TITLE

TITLE SCHEDULE

CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
TILTON SCHOOL WATER POLLUTION PROGRAM
GEO AREA TILTON NH DATE: CONTRACT NO: 1TT1-WP-41-01
03B000009 SUBJ CLASS: 04
SUBJ: ENVIRONMENTAL EDUCATION WATER POLLUTION CURRICULUM DEVELOPMENT

ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
KOHN R F
UNITED STATES NATIONAL COMMISSION FOR UNESCO
GEO AREA ATLANTA GA DATE:11/71 CONTRACT NO:
03B000006 SUBJ CLASS: 10
SUBJ: ENVIRONMENTAL EDUCATION STUDY OF MANKIND ECOLOGICAL EFFECTS
HUMAN ECOLOGY

EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
MARINE TECHNOLOGY SOCIETY
GEO AREA WASHINGTON DC DATE: 6/66 CONTRACT NO:
03B000008 SUBJ CLASS: 04 10
SUBJ: MARINE TECHNOLOGY OCEAN EXPLOITATION OCEAN DUMPING
UNDERSEA MINING MINING INDUSTRY

OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING
EARTHQUAKE RISK 1973 CONTRIBUTIONS
DUKE C M JACOBSEN S E
UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
GEO AREA CA DATE: 6/73 CONTRACT NO: UCAL-WRC-W-339
03B000010 SUBJ CLASS: 04
SUBJ: WATER RESOURCE SYSTEMS EARTHQUAKES
141

RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
NEW ENGLAN NEW YORK INTER-AGENCY COMMITTEE
GEO AREA BOSTON MA DATE: 3/55 CONTRACT NO:
03B000005 SUBJ CLASS: 04 14
SUBJ: NORTHEAST DRAINAGE BASIN WATER POLLUTION

SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION
TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
FEDERATION OF ROCKY MOUNTAIN STATES INC
WESTERN GOVERNORS CONFERENCE
GEO AREA SALT LAKE CITY UT DATE: 3/70 CONTRACT NO:
03B000007 SUBJ CLASS: 13 10
SUBJ: HUMAN RESOURCES HUMAN ECOLOGY

Document #46

01-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.TITLE

TITLE SCHEDULE

SEVENTH TECHNICAL PROGRESS REPORT
FAITH W L RENZETTI N A
AIR POLLUTION FOUNDATION
GEO AREA SAN MARINO CA DATE: 3/61 CONTRACT NO:
03B000001 SUBJ CLASS: 01
SUBJ: ATMOSPHERIC PHOTOCHEMISTRY MOTOR VEHICLE EMISSIONS INSTRUMENTATION
33

THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
SHEARLS E A CHIA S N HARGIS JR W J
VIRGINIA INSTITUTE OF MARINE SCIENCE
GEO AREA GLOUCESTER POINT VA DATE: 2/73 CONTRACT NO:
03B000002 SUBJ CLASS: 06
SUBJ: THERMAL EFFECTS JAMES RIVER NUCLEAR POWER PLANT
INSTRUMENT CALIBRATION INFRA-RED SCANNING
33 ORO-4067-4

TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS
PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966
SPENCER D L WORONIAK A
HOWARD UNIVERSITY
U S AIR FORCE OFFICE OF AEROSPACE RESEARCH
GEO AREA WARRENTON VA DATE:12/66 CONTRACT NO: AFOSR66
03B000011 SUBJ CLASS: 10
SUBJ: TECHNOLOGY TRANSFER ECONOMIC THEORY

WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23
PARIZEK R R KARDOS L T SOPPER W E
PENNSYLVANIA STATE UNIVERSITY
GEO AREA UNIVERSITY PARK PA DATE: 67 CONTRACT NO:
03B000003 SUBJ CLASS: 04
SUBJ: WASTE WATER RENOVATION

21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
AMERICAN PUBLIC POWER ASSOCIATION
GEO AREA JACKSONVILLE FL DATE: 5/64 CONTRACT NO:
03B000004 SUBJ CLASS: 04
SUBJ: POWER INDUSTRY PUBLIC POWER ATOMIC POWER

Document #47

01-08-74
ENVIRONMENTAL PROTECTION AGENCY — AUTHOR SCHEDULE
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.AUTH

DUKE C M — JACOBSEN S E
OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING EARTHQUAKE RISK 1973 CONTRIBUTIONS
UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
GEO AREA — CA — DATE: 6/73 CONTRACT NO: UCAL-WRC-W-339
03B000010 — SUBJ CLASS: 04
SUBJ: WATER RESOURCE SYSTEMS — EARTHQUALKES
141

FAITH W L — RENZETTI N A
SEVENTH TECHNICAL PROGRESS REPORT
AIR POLLUTION FOUNDATION
GEO AREA SAN MARINO — CA — DATE: 3/61 CONTRACT NO:
03B000001 — SUBJ CLASS: 01
SUBJ: ATMOSPHERIC PHOTOCHEMISTRY — MOTOR VEHICLE EMISSIONS — INSTRUMENTATION
33

KOHN R F
ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
UNITED STATES NATIONAL COMMISSION FOR UNESCO
GEO AREA ATLANTA — GA — DATE:11/71 CONTRACT NO:
03B000006 — SUBJ CLASS: 10
SUBJ: ENVIRONMENTAL EDUCATION — STUDY OF MANKIND — ECOLOGICAL EFFECTS
HUMAN ECOLOGY

PARIZEK R R — KARDOS L T — SOPPER W E
WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23
PENNSYLVANIA STATE UNIVERSITY
GEO AREA UNIVERSITY PARK — PA — DATE: 67 CONTRACT NO:
03B000003 — SUBJ CLASS: 04
SUBJ: WASTE WATER — RENOVATION

SHEARLS E A — CHIA S N — HARGIS JR W J
THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
VIRGINIA INSTITUTE OF MARINE SCIENCE
GEO AREA GLOUCESTER POINT — VA — DATE: 2/73 CONTRACT NO:
03B000002 — SUBJ CLASS: 06
SUBJ: THERMAL EFFECTS — JAMES RIVER — NUCLEAR POWER PLANT
INSTRUMENT CALIBRATION — INFRA-RED SCANNING
33 — ORO-4067-4

Document #47

01-08-74 AUTHOR SCHEDULE
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.AUTH

SPENCER D L WORONIAK A
TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS
PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966
HOWARD UNIVERSITY
U S AIR FORCE OFFICE OF AEROSPACE RESEARCH
GEO AREA WARRENTON VA DATE:12/66 CONTRACT NO: AFOSR66
03B000011 SUBJ CLASS: 10
SUBJ: TECHNOLOGY TRANSFER ECONOMIC THEORY

Document #48

01-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.CORP

PRIMARY CORPORATE AUTHOR SCHEDULE

AIR POLLUTION FOUNDATION
SEVENTH TECHNICAL PROGRESS REPORT
FAITH W L RENZETTI N A
GEO AREA SAN MARINO CA DATE: 3/61 CONTRACT NO:
03B000001 SUBJ CLASS: 01
SUBJ: ATMOSPHERIC PHOTOCHEMISTRY MOTOR VEHICLE EMISSIONS INSTRUMENTATION
33

AMERICAN PUBLIC POWER ASSOCIATION
21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
GEO AREA JACKSONVILLE FL DATE: 5/64 CONTRACT NO:
03B000004 SUBJ CLASS: 04
SUBJ: POWER INDUSTRY PUBLIC POWER ATOMIC POWER

FEDERATION OF ROCKY MOUNTAIN STATES INC
SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION
TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
WESTERN GOVERNORS CONFERENCE
GEO AREA SALT LAKE CITY UT DATE: 3/70 CONTRACT NO:
03B000007 SUBJ CLASS: 13 10
SUBJ: HUMAN RESOURCES HUMAN ECOLOGY

HOWARD UNIVERSITY
TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS
PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966
SPENCER D L WORONIAK A
U S AIR FORCE OFFICE OF AEROSPACE RESEARCH
GEO AREA WARRENTON VA DATE:12/66 CONTRACT NO: AFOSR66
03B000011 SUBJ CLASS: 10
SUBJ: TECHNOLOGY TRANSFER ECONOMIC THEORY

MARINE TECHNOLOGY SOCIETY
EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
GEO AREA WASHINGTON DC DATE: 6/66 CONTRACT NO:
03B000008 SUBJ CLASS: 04 10
SUBJ: MARINE TECHNOLOGY OCEAN EXPLOITATION OCEAN DUMPING
UNDERSEA MINING MINING INDUSTRY

NEW ENGLAN NEW YORK INTER-AGENCY COMMITTEE
RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
GEO AREA BOSTON MA DATE: 3/55 CONTRACT NO:
03B000005 SUBJ CLASS: 04 14
SUBJ: NORTHEAST DRAINAGE BASIN WATER POLLUTION

01-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.CORP

PRIMARY CORPORATE AUTHOR SCHEDULE

PENNSYLVANIA STATE UNIVERSITY
WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23
PARIZEK R R KARDOS L T SOPPER W E
GEO AREA UNIVERSITY PARK PA DATE: 67 CONTRACT NO:
03B000003 SUBJ CLASS: 04
SUBJ: WASTE WATER RENOVATION

TILTON SCHOOL WATER POLLUTION PROGRAM
CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
GEO AREA TILTON NH DATE: CONTRACT NO: 1TT1-WP-41-01
03B000009 SUBJ CLASS: 04
SUBJ: ENVIRONMENTAL EDUCATION WATER POLLUTION CURRICULUM DEVELOPMENT

UNITED STATES NATIONAL COMMISSION FOR UNESCO
ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
KOHN R F
GEO AREA ATLANTA GA DATE:11/71 CONTRACT NO:
03B000006 SUBJ CLASS: 10
SUBJ: ENVIRONMENTAL EDUCATION STUDY OF MANKIND ECOLOGICAL EFFECTS
HUMAN ECOLOGY

UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING
EARTHQUAKE RISK 1973 CONTRIBUTIONS
DUKE C M JACOBSEN S E
GEO AREA CA DATE: 6/73 CONTRACT NO: UCAL-WRC-W-339
03B000010 SUBJ CLASS: 04
SUBJ: WATER RESOURCE SYSTEMS EARTHQUAKES
141

VIRGINIA INSTITUTE OF MARINE SCIENCE
THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
SHEARIS E A CHIA S M HARGIS JR W J
GEO AREA CLOUCESTER POINT VA DATE: 2/73 CONTRACT NO:
03B000002 SUBJ CLASS: 06
SUBJ: THERMAL EFFECTS JAMES RIVER NUCLEAR POWER PLANT
INSTRUMENT CALIBRATION INFRA-RED SCANNING
33 ORO-4067-4

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.SUBJNO

SUBJECT LISTING

ATMOSPHERIC PHOTOCHEMISTRY 03B000001	01	SEVENTH TECHNICAL PROGRESS REPORT
ATOMIC POWER 03B000004	04	21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
CURRICULUM DEVELOPMENT 03B000009	04	CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
EARTHQUALKES 03B000010	04	OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING EARTHQUAKE RISK 1973 CONTRIBUTIONS
ECOLOGICAL EFFECTS 03B000006	10	ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
ECONOMIC THEORY 03B000011	10	TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966
ENVIRONMENTAL EDUCATION 03B000009	04	CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
03B000006	10	ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
HUMAN ECOLOGY 03B000006	10	ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
03B000007	13 10	SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
HUMAN RESOURCES 03B000007	13 10	SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE

ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.SUBJNO

SUBJECT LISTING

INFRA-RED SCANNING 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
INSTRUMENT CALIBRATION 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
INSTRUMENTATION 03B000001	01	SEVENTH TECHNICAL PROGRESS REPORT
JAMES RIVER 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
MARINE TECHNOLOGY 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
MINING INDUSTRY 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
MOTOR VEHICLE EMISSIONS 03B000001	01	SEVENTH TECHNICAL PROGRESS REPORT
NORTHEAST DRAINAGE BASIN 03B000005	04 14	RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
NUCLEAR POWER PLANT 03B000002	06	THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
OCEAN DUMPING 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
OCEAN EXPLOITATION 03B000008	04 10	EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
POWER INDUSTRY 03B000004	04	21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS

Document #50

01-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.GEO

GEOGRAPHIC SCHEDULE

CA

OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING EARTHQUAKE RISK 1973 CONTRIBUTIONS
DUKE C M
JACOBSEN S E
UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER
DATE: 6/73 CONTRACT NO: UCAL-WRC-W-339
03B000010 SUBJ CLASS: 04
SUBJ: WATER RESOURCE SYSTEMS EARTHQUAKES
141

SAN MARINO

SEVENTH TECHNICAL PROGRESS REPORT
FAITH W L
RENZETTI N A
AIR POLLUTION FOUNDATION
DATE: 3/61 CONTRACT NO:
03B000001 SUBJ CLASS: 01
SUBJ: ATMOSPHERIC PHOTOCHEMISTRY MOTOR VEHICLE EMISSIONS INSTRUMENTATION
33

DC

WASHINGTON

EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
MARINE TECHNOLOGY SOCIETY
DATE: 6/66 CONTRACT NO:
03B000008 SUBJ CLASS: 04 10
SUBJ: MARINE TECHNOLOGY OCEAN EXPLOITATION OCEAN DUMPING
UNDERSEA MINING MINING INDUSTRY

FL

JACKSONVILLE

21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
AMERICAN PUBLIC POWER ASSOCIATION
DATE: 5/64 CONTRACT NO:
03B000004 SUBJ CLASS: 04
SUBJ: POWER INDUSTRY PUBLIC POWER ATOMIC POWER

GA

ATLANTA

ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
KOHN R F
UNITED STATES NATIONAL COMMISSION FOR UNESCO
DATE: 11/71 CONTRACT NO:
03B000006 SUBJ CLASS: 10
SUBJ: ENVIRONMENTAL EDUCATION STUDY OF MANKIND ECOLOGICAL EFFECTS
HUMAN ECOLOGY

Document #50

01-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.GEO

GEOGRAPHIC SCHEDULE

MA
BOSTON — RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1

NEW ENGLAN NEW YORK INTER-AGENCY COMMITTEE
DATE: 3/55 CONTRACT NO:
03B000005 SUBJ CLASS: 04 14
SUBJ: NORTHEAST DRAINAGE BASIN WATER POLLUTION

NH
TILTON — CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2

TILTON SCHOOL WATER POLLUTION PROGRAM
DATE: CONTRACT NO: 1TT1-WP-41-01
03B000009 SUBJ CLASS: 04
SUBJ: ENVIRONMENTAL EDUCATION WATER POLLUTION CURRICULUM DEVELOPMENT

PA
UNIVERSITY PARK — WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23
PARIZEK R R KARDOS L T SOPPER W E
PENNSYLVANIA STATE UNIVERSITY
DATE: 67 CONTRACT NO:
03B000003 SUBJ CLASS: 04
SUBJ: WASTE WATER RENOVATION

UT
SALT LAKE CITY — SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION
TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE

FEDERATION OF ROCKY MOUNTAIN STATES INC
WESTERN GOVERNORS CONFERENCE
DATE: 3/70 CONTRACT NO:
03B000007 SUBJ CLASS: 13 10
SUBJ: HUMAN RESOURCES HUMAN ECOLOGY

VA
GLOUCESTER POINT — THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III
SHEARLS E A CHIA S N HARGIS JR W J
VIRGINIA INSTITUTE OF MARINE SCIENCE
DATE: 2/73 CONTRACT NO:
03B000002 SUBJ CLASS: 06
SUBJ: THERMAL EFFECTS JAMES RIVER NUCLEAR POWER PLANT
INSTRUMENT CALIBRATION INFRA-RED SCANNING

ORO-4067-4

01-08-74
ENVIRONMENTAL PROTECTION AGENCY
LIBRARY SYSTEM REPORT
DOCUMENT CONTROL SYSTEM
PROG: DOCU.SHELF

SHELF LISTING

03B000001 SEVENTH TECHNICAL PROGRESS REPORT
DATE: 3/61 PB NO: REPORT NO: 33
FAITH W L
AIR POLLUTION FOUNDATION

03B000002 THERMAL EFFECTS OF THE SURRY NUCLEAR POWER PLANT ON THE JAMES RIVER VIRGINIA PART III ORO-4067-4
DATE: 2/73 PB NO: REPORT NO: 33
SHEARIS E A
VIRGINIA INSTITUTE OF MARINE SCIENCE

03B000003 WASTE WATER RENOVATION AND CONSERVATION THE PENNSYLVANIA STATE UNIVERSITY STUDIES NO 23
DATE: 67 PB NO: REPORT NO:
PARIZEK R R
PENNSYLVANIA STATE UNIVERSITY

03B000004 21 ST ANNUAL CONVENTION AMERICAN PUBLIC POWER ASSOCIATION PROCEEDINGS
DATE: 5/64 PB NO: REPORT NO:
AMERICAN PUBLIC POWER ASSOCIATION

03B000005 RESOURCES OF NEW ENGLAND NEW YORK REGION PT 2 CH 1
DATE: 3/55 PB NO: REPORT NO:
NEW ENGLAN NEW YORK INTER-AGENCY COMMITTEE

03B000006 ENVIRONMENTAL EDUCATION THE LAST MEASURE OF MAN
DATE: 11/71 PB NO: REPORT NO:
KOHN B F
UNITED STATES NATIONAL COMMISSION FOR UNESCO

03B000007 SCIENCE AND TECHNOLOGY AND ITS APPLICATION TO THE PROBLEMS OF POLLUTION
TRANSPORTATION AND EMPLOYMENT WESTERN STATES CONFERENCE
DATE: 3/70 PB NO: REPORT NO:
FEDERATION OF ROCKY MOUNTAIN STATES INC

03B000008 EXPLOITING THE OCEAN TRANSACTIONS OF THE 2 ND ANNUAL MTS CONFERENCE AND EXHIBIT
DATE: 6/66 PB NO: REPORT NO:
MARINE TECHNOLOGY SOCIETY

03B000009 CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES V 1-2
DATE: PB NO: REPORT NO:
TILTON SCHOOL WATER POLLUTION PROGRAM

03B000010 OPTIMIZATION OF WATER RESOURCE SYSTEMS INCORPORATING
EARTHQUAKE RISK 1973 CONTRIBUTIONS
DATE: 6/73 PB NO: REPORT NO: 141
DUKE C M
UNIVERSITY OF CALIFORNIA WATER RESOURCES CENTER

03B000011 TRANSFER OF TECHNOLOGY TO DEVELOPING NATIONS
PAPERS AND PROCEEDINGS OF A CONFERENCE HELD AT AIRLIE HOUSE APRIL 28 30 1966
DATE: 12/66 PB NO: REPORT NO:
SPENCER D L
HOWARD UNIVERSITY

System Comparisons

This table briefly compares some of the common aspects of the library systems.

The operation cost comparisons are based on the execution of a computer program that generates a standard report.

In all instances, the hardware is NIH's IBM 370/165's and the software is the Inquiry and Reporting System language.

The System	System Development Time *	Computer Program Executed	Execution Time (CPU SEC) Dollar Cost/Turn Around	Size of Master File	Type of Storage
The Journal System	160 Working Hours	Generates a journal inventory report for a single library- HQ's Library in this execution.	4.84 sec/$7.25/ 2 hr turn around**	Journal holdings file-6262 120 ch records/Journal title file-2656 120 ch records	On-line Disk***
Hard Bound Book System	360 Working Hours	Generates a subject report for the total library network.	19.65 sec/$32.68/ 2 hr turn around**	Book holdings file of 9098 130 ch records/Book title file of 7667 130 ch records.	On-line disk***
The Circulation System	120 Working Hours	Generates a daily report (alpha by title) of all library material on loan.	2.31 sec/$3.12/ 2 hr turn around**	Circulation master containing 589 120 ch records.	On-line disk
The Pesticides Literature Search System	360 Working Hours	Generates an author report representing all citations to date.	10.53 sec/$15.36/ 2 hr turn around**	Single Master file containing 1000 900 ch records. (This is a sample of the total file.)	Magnetic Tape

* The total combined time of the functional and technical staffs necessary to develop the the application to an operational status using test files.

** Under normal conditions, a lower job class priority would have been used (12-14 hour turn around). A 20% discount would have resulted.

***The permanent storage used is magnetic tape. The cost of on-line storage is approximately 1.2 cents to 2 cents/day/track depending on whether public or private disk space is used.

System Comparisons Continued

The System	System Development Time *	Computer Program Executed	Execution Time (CPU SEC) Dollar Cost/Turn Around	Size of Master File	Type of Storage
The Ecological Air Pollutant Literature Search System	280 Working Hours	Generates an author report representing all citations to date.	3.82 sec/$4.52 12-14 hr turn around	Single Master file containing 500 1080 ch records. (This is a sample of the total file.)	Magnetic Tape
The EPA Reports Reporting System.	560 Working Hours	Generates an abstract report for the total master file.	17.06 sec/$18.95/ 12-14 hr turn around	Single Master file containing 1231 4800 ch records.	Magnetic Tape
International Environmental Reports System	280 Working Hours	Generates a multiple subject index (with abstracts) for the total master file.	9.54 sec/$11.53/ 12-14 hr turn around	Single Master file containing 518 1600 ch records.	Magnetic Tape
The EPA Document Control System	160 Working Hours	Not applicable as the system is developed only to the test phase.	Not applicable as the system is developed only to the test phase.	Single Master file containing 900 ch records.	Magnetic Tape

* The total combined time of the functional and technical staffs necessary to develop the the application to an operational status using test files.
** Under normal conditions, a lower job class priority would have been used (12-14 hour turn around). A 20% discount would have resulted.
***The permanent storage used is magnetic tape. The cost of on-line storage is approximately 1.2¢ to 2¢/day/track depending on whether public or private disk space is used.